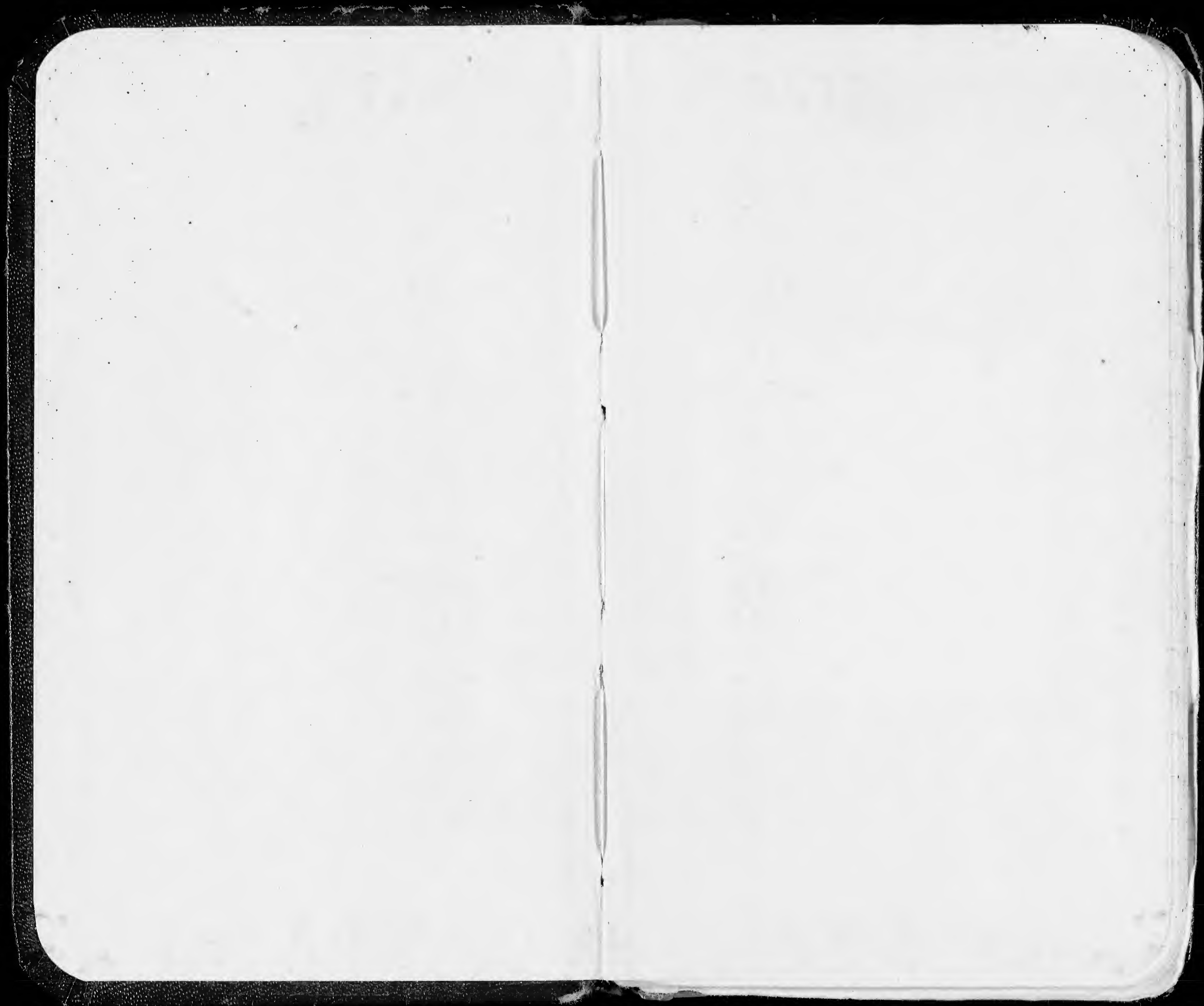
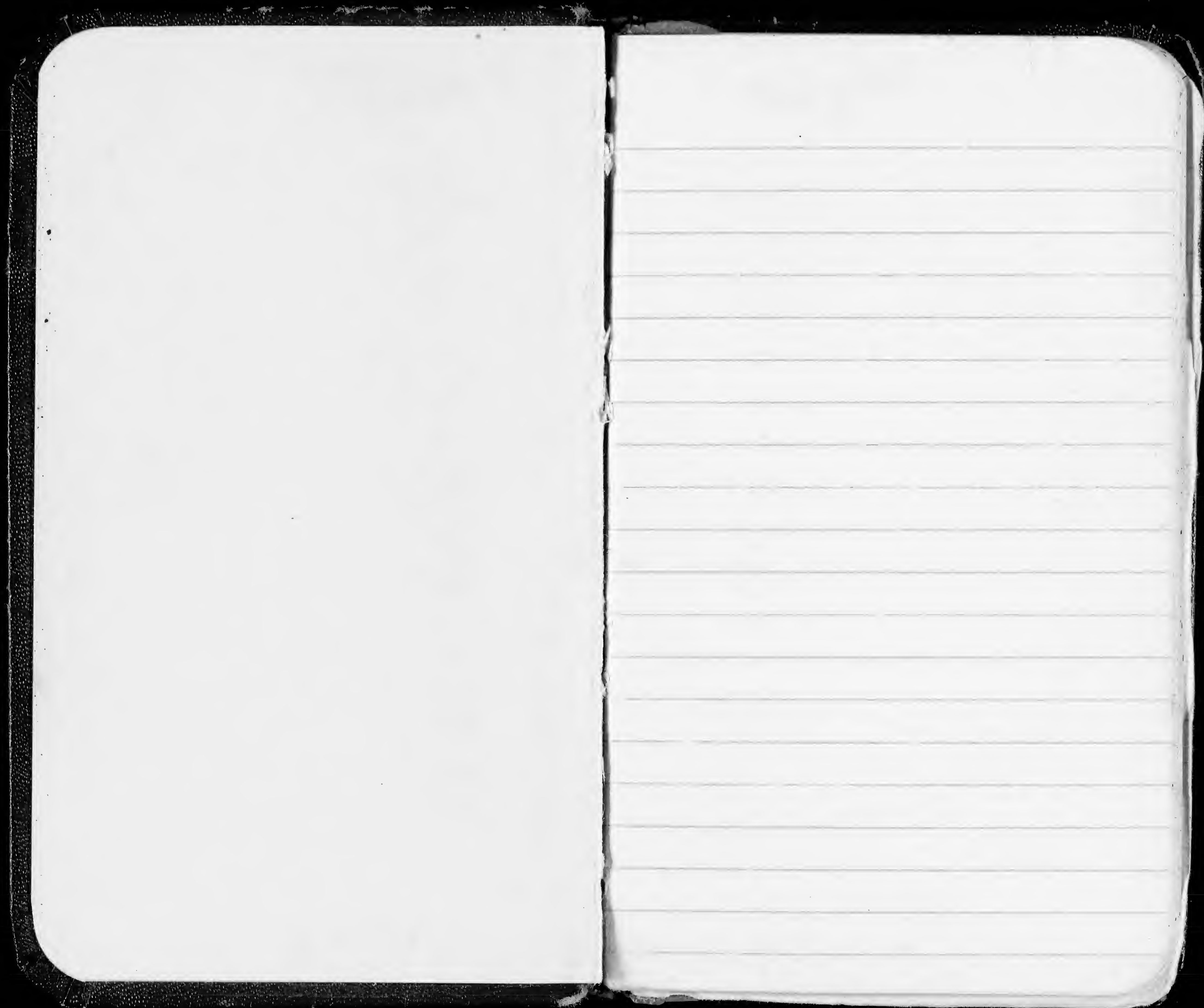
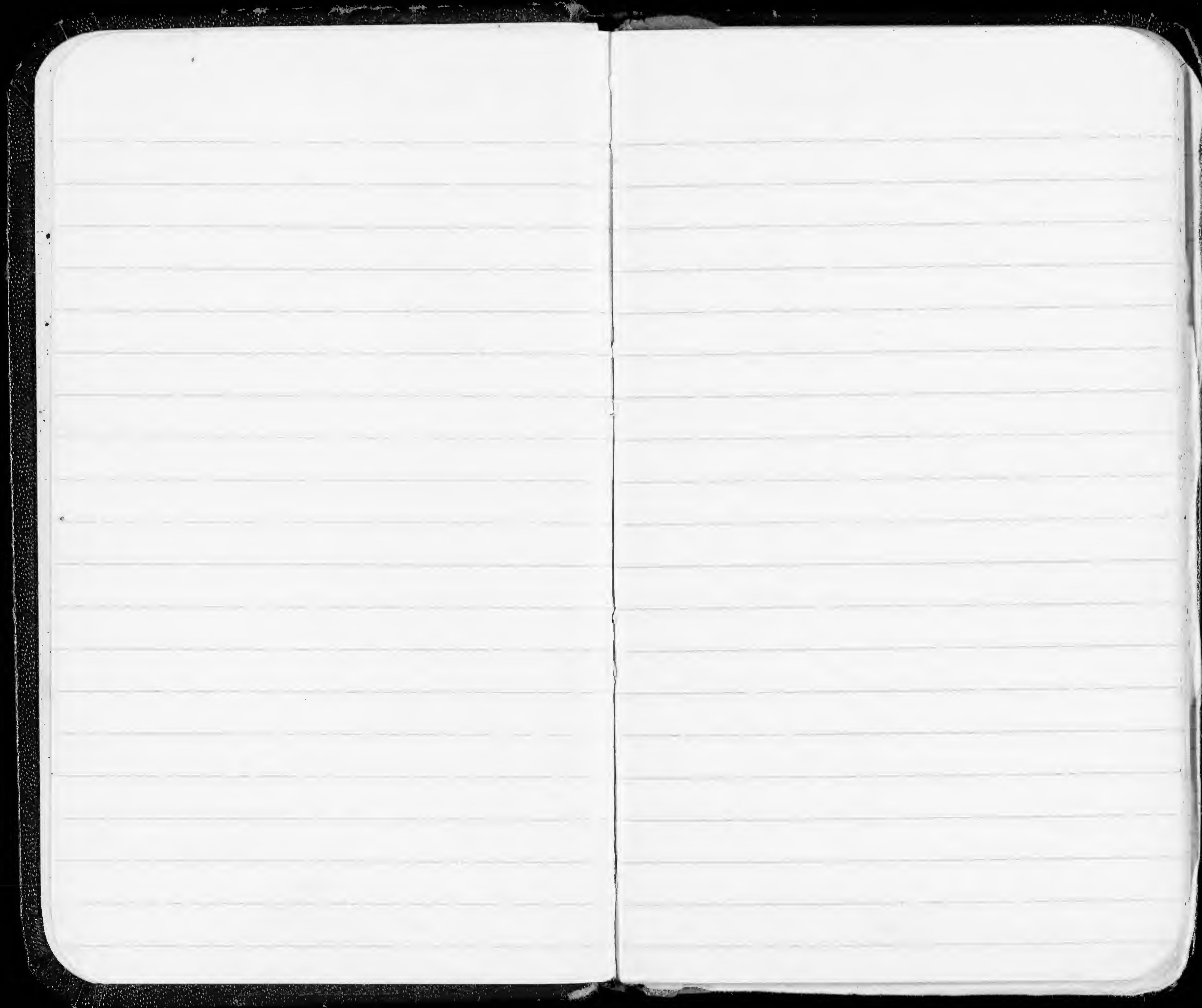
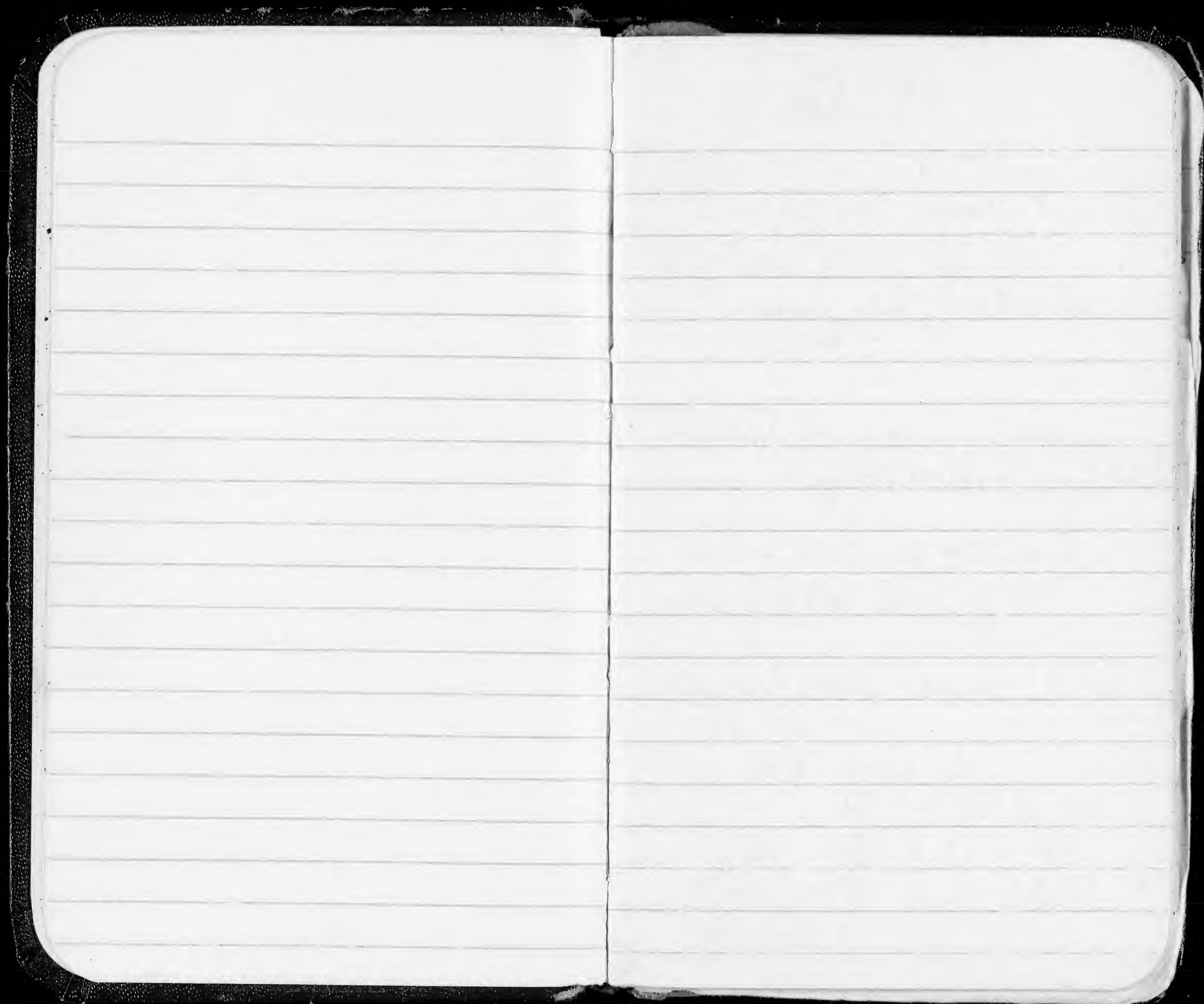


Memoranda









10 Feb 69

estab. BFB nests #s 13 + 14
VK has egg measurements + band info.

Recaptures: 737 - 95030 L.A.
wearing red plastic band
(N.A.F.)

sighted pr. gowls (from
under support cables in SAF)

1 seal in water off NE beach + 1
hauled out on beach of N.P.

Sunset roost counts: (North
Tower)

VK has #s

RFB: locals: 0

Ad : 157 vs. 182

GF: total: 39 vs. 47

sunset: 1840 wind ~ 20 kts. N

sky: clear

10 Feb 69

seva samples on 20 RFB
4 new bands 1 inter island
recapture

11 Feb 69 ✓

~~BFB # 1 green NAF~~
~~697-24523 ♂ nest # 11~~
~~# 2 gr. NAF~~

BFB indiv pattern marking
green NAF
band # sex nest

1	697-24823	♂	11 ✓
2	667-35070	♂	8 ✓
3	737-45112	♀	3 ✓
4	667-35052	♀	11 ✓
5	697-70656	♂	10 ✓
6	697-70619	♀	9 ✓
7	737-98506	♀	7 ✓
8	737-95524	♀	5 ✓
9	697-70620	♂ ✓	no nest
10	667-35029	♂	13 ✓
11	737-45135	♂	no nest

✓ 11 Feb 69
nest check (for non-streamed returns)

species	nest #	band #
LA	841	667-39074 ✓✓
	588	697-90939 ✓
	589	737-96647 ✓✓
	608	737-94293
BFA	68	737-47234 ✓✓
	184	737-45262 ✓✓
	76	737-94872 ✓✓
	86	737-90169 ✓✓
	169	737-91604 ✓✓

✓ 10 Feb 69

green #	SAF	BFB indiv. patterns	band #	sex	nest #
1			667-39210	♀	2 ✓
2			697-24511	♂	6 ✓
3			737-45165	♀	1 ✓
4			737-45126	♀	4 ✓
5			697-24529	♀	no nest
6			737-45135	♂	no nest
7			667-39211	♀	no nest
8			667-39213	♀	no nest
9			667-39202	♂	no nest
10			597-83298	♀	12 ✓
11			737-45120	♂	no nest
12			737-45101	♀	-15 ✓
13			697-70951	♂	-2 ✓
14			667-35062	♂	1 ✓
15			737-45171	♀	no nest
2			737-45124	♂	4 ✓
3			737-98532	♀	no nest

green

11 Feb 69

~~BFB~~ NAF

band # sex nest

11

12

13

14

15

16

Sunset count (Central Roost)

RFB central Locals 0

flying portion Adults 98 (TD) 118 (VK)

flying west portion Locals 0
Adults 97 (TD) 122 (VK)

Sunset - 1841

wind ~ 12 kts

sky ~ 30% cloudy

11 Feb 69

Bonin Is. Petrel: NAF

51.0 x 37.5 egg in burrow

— 28 band #

54.0 x 37.8 — 29 band # RW

Albatross (L.) roosting RW

737-98574 ✓

98292 ✓

95196 ✓

95746 ✓

94502 ✓

93665 ✓

92021 ✓

95652 ✓

99297 ✓

97110 ✓

91301 ✓

95586 ✓

96134 ✓

98902 ✓

94325 ✓

47156 ✓

697-84912 ✓

22236 ✓

90644 ✓

✓ 91164✓
96421✓
97032✓
737-45553✓
-91145✓
97937✓
95627✓
99343✓
97352✓
95743✓
98243✓
11052✓
95487✓
93337✓
93557✓
95474✓
90879✓
97151✓
90884✓
97161✓
98561✓
90935✓
95465✓
45934✓
95183✓
98788✓
45938✓
47114✓
45942✓
97323✓
92239✓
90092✓
97196✓
98564✓
93886✓

667-39751✓

767-~~52176~~
95800

587-85771✓
-85766✓
-91592 x 9/16/69
-85806✓

597-46632✓
-52496✓

757 73397✓
70785✓

11 Feb 69 ✓

New bands roosting LA RWO
587-91741 - 91800

✓ 11 Feb 69

BFA RW-roosting

767-94668✓

597 84132✓

737 97488✓

SWB-roosting BFA

737-97483✓

767-77961✓

-45574✓

-78032✓

-97284✓

-01183✓

-98522✓

-98636✓

-98553✓

-97489✓

697 72084✓

-97487✓

-98631✓

-98626✓

-91166✓

98555✓

98625✓

97476✓

97475✓

12 Feb 69

Shorebird count (7:45 Am)

NWB sanderling 2 3

turnstone 6

g. plover 2 8:00

NP turnst. 2

NEB turnst. 7

sanderl. 1 8:25

SEB tst. 6

sandl. 1

tattler 2 8:50

SP tst. 6

sandl. 2 8:55

SWB tst. 5

sandl. 2

plover 1 9:15

Hgt's tst. 3

plover 1

SAR tst. 4

plav. 3 9:40

12 Feb

shorebird ct. (cont.)

NAF ts/s 4
plover 8
curlew 1

weather - wind ~ 8-9 kts NW
sky ~ 35% cloudy

BF B egg meas. ^{nest} #15 SAF egg #1
✓ 65.4 x 46.4

✓ Bonin I. petrel SAF
egg nest. 48.4 x 37.0

9 burrows w/ eggs, excavated
birds banded (1 return)
eggs measured

12 Feb 69 ✓

LA Albatross nest check RWO

band #	nest #
737-45772 ✓	-677
767 46661 ✓	-408
697 90506 ✓	-406
737-47353	411
737-93082 ✓	-416
737-94167	423
737 45644 ✓	-428
737 92238 ✓	-430

new band on BFA hook taken from ^{neck}
767-51094 RWO prev. banded

✓ Recoveries - RWO
LA 587-91542 (streamered)
" 737-98285
737 93893 (lg. damage in ft. of
sh. of reflector)

12 Feb 69

BFB pattern markings

SAF (brown)

#	band #	sex	nest #
4	737 45132	♂	6
5	" 45134	♂	12 2nd
6	" 45178	♂	NN
7	697 70649	♂	NN
8	" 70953	♀	"
9	767 50901	♀	"
10			
11			
12			
13			
14			

(black)

1
2
3
4
5
6
7
8

NAF (green)

11	667 35051	♂	NN
12	737 92944	♂	8
13	667 35069	♂	NN } pr
14	" 35055	♀	" }

(brown)

1	667 35037	♂	NN
2	697 70919	♂	" 10
3	737 98543	♂	NN } pr
4	737 98533	♂	" }
5	667 35060	♂	NN
6	737 92451	♀	98
7	697 70653	♂	NN }
8	737 99620	♀	" }
9	737 98503	♂	NN
10	" 45199	♂	"
11	" 99604	♂	"
12	767 50828	♀	" }
13	667 35047	♀	" }
14	667 35043	♂	" }

(black)

1	737 98529	♀	NN }
2	" 92947	♂	" }
3	737 92945	♂	7
4	" 99592	♂	5
5	667 35059	♂	NN } pr
6	737 98511	♀	" }
7	697 24501	♂	NN } pr
8	697 24514	♀	" }
9	737 45170	♂	NN } pr
10	697 70652	♀	" }
11	667 35068	♂	NN } pr
12	697 24512	♀	" }
13	697 70657	♂	NN }
14	667 35030	♀	" }

12 Feb

NAF (cont.)

blu hairy br green spots

1	697	90196	♂	nn	}
2	597	83277	♀	"	
3	697	24516	♂	nn	}
4	737	45115	♀	nn	
5	667	35044	♂?		
6	737	98508	♀	"	
7	"	45181	♂	"	
8	"	95842	♂	"	}
9	697	70623	♀	"	
10	737	45174	♂	"	
11	697	70634	♀	"	w/ 13 black
12	737	98585	♀	"	
13	697	24502	♂	"	
14	737	45118	♀	"	

bk hairy br. spots

1	737	98534	♂	nn	}
2	"	98518	♀	"	
3	697	70660	♂	"	}
4	"	24522	♀	"	
5	737	98538	♀	"	
6	697	24520	♂	"	
7	697	70618	♂	"	
8	737	92450	♂	"	

13 Feb 69

12:45 lagoon ~ 65° F

air ~ 68° F near to 12-15 in PM 8
wind ~ 10 kts, ENE
sky ~ 95% cloudy
clear by 3 PM.

BFB

SAF (Red spots) repainted as web
pk 10 737 45125 ♂ nn ✓ 58
pk 737 45129 ♂ " ✓

Bonin I.P.

SAF

egg 47.3 x 37.8 943-88961 (new band) ✓

BFB nest #12 SAF

2nd egg 64.4 x 45.7 ✓

✓ unused bands 66-70 lost ✓

EIP study area

#	egg meas.	new band #'s	
1	48.7 x 36.9	943-889	62 ✓✓
2	51.7 x 37.6		63 ✓✓
3	50.5 x 38.2		64 ✓✓
4	47.4 x 38.0		65 ✓✓
X	no egg (no # given)		71 ✓✓
5	49.1 x 38.7		72 ✓✓
6	50.6 x 38.2		73 ✓✓
X	50.7 x 37.5 egg broken		70 ✓✓

✓ RFB (N. roost along path)

egg meas. 61.4 x 40.4

13 Feb 69 ✓

relative
burrows ~~length~~ depth surroundings

~ 12"	8"	open
str. ~ 4'	15"	clump of grass open otherwise
str. 3 ft. rth 18"	18"	vine + sticks
3 1/2"	13"	sticks
str. ~ 4'	13-14"	clump grass, vine thick
str. 24" at L 30"	12"	sticks, vine, clump grass
curving rt.	32"	10" vine, sticks

LA Nest check

new nest 587-91801 ✓
return ✓✓ 587-65019 (streamer) 459
✓✓ 737 93067 " 462

Returns

RFA

237 47147

697-90056

737-97729

nest #

416 ✓✓

316 ✓✓

309 ✓✓

✓ 13 Feb 69

✓ ~~SAF~~ color schemes (BFB)

~~667-39223~~ ^{now blk spt. 9} → black 9 w w
~~737-98582~~ ^{now blk spt 10} → black 10 " "

~~597-83265~~ ^{now blk spt. 1} → " "
~~737-45127~~ ^{now blk spt. 2} → " "
 14 ok 597 83415 → " "

2+13 changed to blk spt. (wed center)

BIPtel SAF.

return 793 2045? ✓ Egg meas.
 unbanded bird 44.7 x 36.9
 54.2 x 38.3

✓ w/AF color Schemes (BFB)

blk bar brow spot

9	737	98586	♂	WN
10	667	39216	♀	" } pr
11	737	98171	♂	14
12	667	39207	♀	14
13	697	70645	70? →	NN
14	667	35063	♂	3 (egg #1)

13 Feb ✓

✓ blk bar - blk spt.

1	667	35041	♂	NN(9)
2	667	35032	♀	"
3	737	45121	♀	"
4	697	24513	♀	" } pr
5	737	98231	♂	"
6	737	45116	♀	" } pr
7	697	70921	♂	"
8	667	39204	♂	"
9	697	90199	♀	"

14 Feb 69

B.I.P. study

nest #	band #	egg measurement
7	943-88992 //	50.5 x 38.1 /
8	93 /	47.9 x 37.1 /
9	94 /	48.1 x 38.7 /
10	ret. 903-03674 ✓	50.6 x 35.9 /
11	95 //	52.4 x 37.8 /
no #	96 + 97 // BP	no egg
no #	98 // BP	no egg
12	99 //	49.7 x 37.8 /
13	00 //	51.5 x 38.4 /

L.A. recovery SEB 737-91620 ✓✓

RFB egg meas. (study area)
Central Roost

band #	egg meas.
1	64.5 x 42.4 /
2	63.7 x 44.2 /
3	64.2 x 46.2 /
4	65.4 x 40.0 /
5	64.1 x 39.9 /

737-91592 //

14 Feb

length, depth, configuration, + surroundings

5'	16"	str.	denses vine openings + on top
3 1/2'	10"	curve to rt. about 1/2 way	mouth open
18"	8"	str.	open
24"	9"	str.	dead grass + sticks
24"	10"	curve rt.	clump grass + vine

28"	14"	str.	vine (moderate)
32"	14"	str.	vine clump grass near

central roost
old red foot tags 38, 87, 28, 15, 13,
82, 81, 7 no new nest nearby
as of 14 Feb.

✓ 14 Feb 69

RFB egg measure.

66.0 x 40.9 /

60.2 x 41.4 /

60.8 x 41.6 /

59.6 x 43.2 /

58.3 x 40.5 /

Central Roost
west portion

BFB nest check

pattern loc.
16 br. spt. #1 SAF ✓
(#8 unattended)

Sunset roost count (Central Roost)

Central portion from radar reflector tower

RFB subadults 0

adults 78

West portion

subadults 0

adults 41

Young 15

sunset 18:44

wind ~ 11 kts E

sky 8-10% cloudy

✓ 14 Feb 69

BIP returns study area 2

903-03181 ~~BP~~ BP

03444 on egg

03323 BP

15121 "

15107 "

new band used

943-8 42 BP

43 "

44 "

45 "

46 "

47 "

48 "

49 "

50 "

51 "

2 fairy terns 10:05 PM seen in

from SEB

Grey-backs heard from same spot.

✓

14 Feb

Sera RFB north roost

2 737-91670

4 737 44793 died

Mr Vorn's notes

767-45222 no sample

15 Feb.

✓

BIP in SAA (mule fence)

943-880

1) 51.5 x 37.8 #81

2) 52.1 x 39.3 #82

3) 51.0 x 38.7 #83

4) 47.0 x 38.5 903-03444 ✓

5) 50.0 x 38.0 #84

6) 49.6 x 37.8 903-13348 ✓

7) 50.4 x 38.3 #85

8) 52.3 x 37.8 #86

9) 50.8 x 38.3 #87

10) 57.9 x 39.0 #88

BFB nest #16

1st ♂ bk sp. 6

2nd 66.9 x 46.8

nest #14

♂ BK bk sp. 11

nest #13 2nd egg

✓ 15 Feb

nest #7
♀ wing broken egg egg #1 broken

BIP study area ~~NAT~~
~~new bands used~~

✓ 16 Feb 69

BIP new bands 943-88089-

#	11	903 03361	52.1 x 38.0	edge of sand
12	# 90	46.9 x 37.3	open sand	8
no number	# 89	broken egg		
no #	91	egg broken		
13	92	53.0 x 38.0		
14	93	49.1 x 38.4	broken egg to present	
15	94	49.6 x 36.0		
16	943-88056	56.5 x 36.1		
17	95	50.2 x 36.8	sticks, open	
18	96	48.3 x 37.7		

BIP 2100 returns + repeats SAR

903-03185 943-88045

" - 03835 on egg (broken)

✓ 17 Feb 69

old RFB nest tags (# 74, 91, 49
90) (new 344)

RFB nest study area Central Roost
nest # band #

#5 737 91392 // streamered

#6 767 45242 // egg meas.
69.5 x 43.5

#2 737-98469 ✓

SWB Albatross nest check (returns
streamered)
✓ B 265 737-9³⁷51 (restreamered)

✓ B 196 - new band (streamered)
767-51582 ✓

✓ B 271 737-94810 ✓

✓ B 274 737 45743 ✓

~~L 369 687-91515~~

~~L 377 697 22338~~

17 Feb 69
SWB albatross nest check ✓

~~376 737 9531~~

nest # band # birds streamered

✓ B 121 737-45254 ✓

✓ B - 7 ✓

✓ 807 737 92062 61 (reput)
92062 737 92062 4104 4536 62062 38 (SEB) ✓

4. AF study area

new bands 943-87948-52
#48 ♀

recaptures + repeats

1753-32615 -

1943-88914 -

1943-87957 /

6250

4536

4104

3703

7792

8835

✓ 17 Feb 69

old RFB nest tags (# 74, 91, 49
90) (new 344)

RFB nest study area Central Roost
nest # band #

#5 737 91392 // (streamed)

#6 ~~737~~ 767-45242 // egg meas.
69.5 x 43.5 ✓

#2 737-98469 ✓

SWB Albatross nest check (returns
streamed)

✓ B 265- 737-9³⁷51 (re-streamed)

✓ B 196 - new band (streamed)
767-51582 ✓

✓ B 271 737-94810 ✓

✓ B 274 737 45743 ✓

~~L 369 557-91515~~

~~L 377 697 22338~~

17 Feb 69
SWB albatross nest check ✓

~~376 737 91531~~

nest # band # birds streamed

✓ B 121 737-45254 ✓

✓ B 297 697 22967 ✓

✓ B ~~307~~ 767-51061 (reput)
305

✓ B 252 737 47138 (SEB) ✓

BIP WAF study area

new bands 943-87948-52
#48 ♀

recaptures + repeats

1753-32615 -

1943-88914 -

1943-87957 /

✓ 17 Feb
RFB Sera Central roost

28 ~~737 90634~~
~~Vern has data~~

Albatross Roost check new bands

✓ BFT 587-91803 → 833 31
✓ Runway 834 → 891 50
✓ Runway S 892 → 900 21
" 587 91901 → 923 23
(19 1 leg, 1 ft.)

Sooty terns heard calling SEB
12:45 AM

18 Feb 69 ✓

RFB - nest study area

nest #	band #	egg measurement
7	737-45426 //	66.3 x 48.5 /
8		59.6 x 42.3 /
9		61.2 x 42.1 /
10		63.2 x 41.5 /
2	737 95941 //	

old RFB nest eggs #40

new nest #3 egg broken
(old #50 same hatch)

✓ recovery 767-51672 (sea sampled) on
ground nearby

BIP SAF land check
943-87961
new band 948
old band 943-88936
" 88961
" ✓ 903-03450
B
E
F
G

18 Feb

BIP

NAF Study area

nest # band #
12 943-87965 (new)

15 88972 (old)

16 ✓ 773 18440 (old) rebanded w/ 67

19 " 69 new

113 egg broken

115 943-87902

118 17? egg broken

new nests NAF

nest #	band #	egg meas.
120	73	52.8 x 37.7 ✓
121	74	44.5 x 36.1 ✓
124	77	51.2 x 38.7 ✓

✓ BFB nest check (new nests)

17 Wspt. 14 1st egg since 1315
Wspt. 13

18 Feb

BIP SA2

new bands 943-87978-82

97 deformed ft. leg

903-03181 ✓

943 87928 ✓

943-88127 ♀ w/ egg

903 15146 ✓

903-15461 ✓

943-21180 ✓ rebanded w/ 88124

943 88071 ✓

903-03175 ✓

753-33991 ✓

NAF

nest # 1 egg broken (10:30 Pm.)

✓ 19 Feb 69

Shorebird count

N^WB - ~~WB~~ Turnstone 8 7:45

S 0
GP 0

N^WB 0 7:58

N^EB ~~WB~~ Turnstone 2 8:03

S 5
GP 0 8:25

RW turnstone 46
GP 46 8:52

Tropic bird count 1400
from rook of barracks — 0

19 Feb 69
Albatross nest check ✓
NWB new band

B 326 667-39098 ✓ L 586 587-91926 ✓

B 68 737-47234 ✓

L 74 737-47242 //

N^EB

B ~~336~~ 336 no band streamer

L 850 587 91526 streamer? ✓

Sunset roost count (North R.)
Sunset (horizon obscured) 18:50
wind E 18-22 kts
sky 50% cloudy

RFB locals 0
adults 63
flying 14

GF imm. 7
adults 2+3
flying 3

{ 46

✓ 19 Feb 69

BIP study area
new bands used

943-88163 - 72

N 943-88200 - ~~216~~ 218

returns & repeats

943-88962

" - 88906

N 753-33367 → reband w/ 165

943-87590

753-32888 → reband w/ 943-88204

903 03027

Roosting Albatross

new bands used

587-91927-92000

Antenna fields 927 → 000

767-51585 → 594 600

✓ 20 Feb 69

RFR nest check

old nest #

53

egg sizes

59.6 x 41.0 ✓

66.7 x 41.0 ✓

BIP SAF

tion

band #

87962

- 87961

87963

88931

88936

unbanded

Antenna fields 03450

SA 2 8:00-9:30 PM

943-88216 → 228

* ✓ 943-20531 -

✓ " 21423 -

943-87932

✓ 743-40541

✓ 903-13167

✓ " 13165

✓ 753-33486 reband w/ 278
903-15103 238

25

50

25

25

25

25

18

✓ 19 Feb 69

BIP study area
new bands used

943-88163 - 72

943-88200 - ~~216~~ 218

returns & repeats

943-88962

" - 889806

✓ 753-33367

→ reband w/ 145

943-87590

✓ 753-32888 → reband w/ 943-88204

✓ 903 03027

Roosting Albatross

new bands used

587-91927 - 92000

Antenna fields 927 → 000

767-51585 → 594 600

✓ 20 Feb 69

RFB nest check

new nest #

old nest #

egg meas

11

53

59.6 x 41.0 ✓

12

66.7 x 41.0 ✓

BIP SAF

nest designation

band #

A

87962

B

87961

C

87963

D

88931

E

88936

F

unbanded

G

903-03450

BIP SA2 8:00 - 9:30 PM

new bands used 943-88216 → 228

✓ 903-03181 repeat

✓ 943-20539 -

✓ 943-88077

✓ " 21423 -

✓ 87979

✓ 903-15301

✓ 943-87932

✓ 793-20547

✓ 753-33486 reband w/ 278

✓ 903-13167

903-15103

✓ " 13165

✓ 21 Feb 69

Albatross nest check

✓ BFT

RW. L 434-737 92773 //

B 313 - 737. 45569 //

2.

✓ BIP SAR

new bands used 943-88301-310 //

nest #	band #
1	301-
2	abandoned?
3	903-03844 ✓
4	abandoned
5	abandoned
6	abandoned
7	abandoned
8	303-
9	abandoned?
10	302 ✓
11	304 ✓
12	88090 / same
13	306-
14	305-
15	abandoned
16	abandoned
17	abandoned
18	abandoned

21 Feb

new
nest #

band #

egg meas.

19

307

47.5 x 38.1 ✓

20

308

49.4 x 39.0 ✓

— 773'8477 rebanded w/ 309 (no egg) ✓

310

(no egg)

— 903-13391 (no egg) ✓

✓ BFB

new nest #

egg meas.

W. sp. 8 ♂

SAF 18

65.4 x 46.1 ✓

697-70953 ✓

W. sp 70

BIP NAF

new bands used 943-88311-214 ✓

returns + repeats

311 partial BP.

943-88986

88214

88199

22 Feb

✓ NAF
#20 Uk spt. 6lkspt 9- 71.1 x 47.7-
9 " " 10-

BIP SAZ 8:30 PM
new bands used 943-88342 → 346

✓ 346 reband

reprints & returns 354 - st. by deformed

903-15462

943-87988

1 88233

88224

87982

88307

753-33797 reband w/ 346

~~903-03805~~ ⁹⁰³ 14779

903-15158

" 03730

23 Feb 69

RFB nest check

nest # band # egg meas.

nothing new

BFB nest check

6lk bar, 6lkspt. 9 still in SAF
no new nests or eggs

Brown Booby NAF

767-51137 ANY

Sunset roost count (North tower)

RFB locals 0

adults 262

flying 17

GF.

immatures 11 } immediately in
adults 2 } 6th g tower

total others 50

flying 2

23 Feb

sun set 18:49
sky 85-90% cloudy
wind NW ~ 2-3

(18 GF's in Casuarina tree
behind generator bldg.

2 seals hauled out on N. jet
~ 8:30 pm.

1 seal swimming off NWB 7:55 PM
Carlew present in NAF 1715

BIP ~~SA2~~^{NAF} (8:15 PM - 8:45)

new bands used 943-88361 - 64 ✓

returns + repeats ✓

943-88907

moon beginning 2nd quarter ✓
wind 1-2 WNW mostly cloudy

24 Feb

Albatross nest check (SWB)
B206 737-92675 restreamed
B126 737 45547 restreamed

BIP SA2

new bands used 943-88365 400
943-88401 30

returns + repeats

903-13365 ✓	943-87980 ✓	773-18370 ✓
15390 ✓	88343 ✓	
15213 ✓	87932 ✓	
15302 ✓	88144 ✓	
	88353 ✓	
	88161 ✓	
	88052 ✓	
	88360 ✓	

24 Feb

Roosting Albatross

BFT

new bands used (L.A.)

767-51837 - 900

767-51901 - 52000

RW.

SWB

✓ 25 Feb

BIP SA2 nestcheck

- ~ #9 abandoned
8 "
10 egg found broken (bird in burrow)
1 abandoned
13 "
12 egg found broken (bird in burrow)
14 abandoned
20 "
19 no egg found (bird in burrow)

NIF new bands used
943-88431-438

- #1 alone
2 "
3 "
4 active
5 " 943-88431
6 " " 87967

- 18 abandoned
19 bird pres. egg?

✓ #32 Ad. egg stuck to BP

new nest # egg meas band #

25 51.2 x 39.3 33

26 54.5 x 38.5

27 50.2 x 39.9 88329

none 34

28 51.4 x 38.2 753-33879 ^{w/} 35

29 50.4 x 37.3 36

30 50.7 x 37.4 37

SAF

H 53.1 x 38.1 38

G 753-33953

F 943-88341

E 88340

D ~~111~~ unbanded

C 88932

B 87961

A 88930

check

✓ 25 Feb

RTTB return NAF

✓ 615-10125

BIP NAF

new bands used 943-88439 → 65

42 (on egg)

returns repeats

943-88190 77318229 reh w/ 444

88194

87890

88182

88432

903-13033 ✓

Roosting Albatross

767-46101 — 46300

119 added to 597-74842

26 Feb ✓

Shorebird count

NWB RT 5 7:44

WT 5 1

GP 12
North point 0 8:00

NEB RT 2

S 2

GP 1

Runway GP 11 8:21

RT 8

9:05

LA recovery RWO 737-10485

✓ 26 Feb

RFB nest check

nest # egg meas. band #
5 737.91592

6 unattended

10 egg on ground (unbroken + replaced)

RFB egg meas. (west portion C. Row)

62.3 x 43.1) 62.0 x 40.7

64.3 x 43.3) 69.0 x 40.0

60.9 x 41.6) 58.1 x 40.4

✓ BIP SAF

nest designation egg meas. band #
I 47.7 x 37.9

26 Feb
Sunset Roost count

locals 0

RFB others ~~75~~ 175 (1 subadult)

flying ~~20~~ 12

GF in front of tower { 10 immat
1 adult
others 73

flying 2

~~BIP SAF 8:15 - 9:00 PM~~

~~new bands used 943-88466-500~~

~~returns & repeats~~

~~943-88134~~

~~✓ 88237~~

~~✓ 88160~~

~~943-20664~~

~~903-15390~~

~~15073~~

~~03671~~

~~943-20602 w/ 68~~

~~753-33107 w/~~

~~15073~~

~~903 15199~~

✓ 26 Feb

Sera samples (LA)

27 Feb ✓

BIP SAF study area
poison (6) cans placed
along edge of Scaevola

newbands used 943-88507-508

507 nest D SAF /

508 nest I SAF /

BFB

2nd egg in nest #18 SAF
new nest #22 NAF

or did birds of #20 abandon
1st egg + re-estab. a new nest?

✓ 27 Feb

BIP NAF

new bands used 943-88509-21 ✓

returns & repeats

943-88464

903

87922 ✓

88990

293

753

28 Feb ✓

RFB north roost
egg. meas

63.1 x 44.0

65.5 x 41.1

67.8 x 40.7

59.5 x 41.4

58.5 x 37.8

60.7 x 42.1

60.0 x 41.6

64.2 x 40.7

60.5 x 41.9

58.0 x 43.2

58.3 x 39.3

60.1 x 40.5

60.3 x 39.6

64.9 x 41.9

62.8 x 42.0

64.6 x 40.3

56.4 x 41.7

62.9 x 44.6

737-97563 streamer ✓

64.3 x 41.7

64.8 x 39.6

65.3 x 40.3

64.0 x 40.1

✓
North roost (near beach)

Imm. RFB

767-51489 green streamered
(brown)

Central Roost

#6 767-45242 ✓

#10 destroyed

#9 / #59 ✓

#11 737-98194 ✓

28 Feb.

BIP SA2 8:20-9:20

new birds used: 943-88522-563

4526 w/ PBP 534 w/ PBP 551 no BP
549

returns & repeats ?

903-03444 repeat 943-87599 773-18474
13348 ✓ 88932 ✓ 18354 w/36
13365 ✓ 88058 ✓
{03805} ✓ 87930 ✓
{14779} ✓ 88132 ✓
✓ 03361 w/563 88398 ✓
793-20205 w/552 88151 ✓
88059 ✓
88298 ✓
88083 ✓
88304 ✓

✓ 28 Feb.

BIP SAT 12 midnight

H: both birds present (unbanded)

G: same as afternoon

F 88961 ~~340~~

E 88340

D 88507

C 88932 * * these eggs have

B 88934 been cracked or

A 88930 * dented

I unbanded *

1 March

B 88934 egg OK

I unbanded

C 88932

D 88507

A 88930 bird flew away

F unattended egg not cracked

E 88340 egg OK

G " egg OK

H 438 egg OK

1

2

Feb Janja II

2.60 4 Feb

.81 27 Feb

+ .13 additional

3.54 total

temp range

58° - 75° F

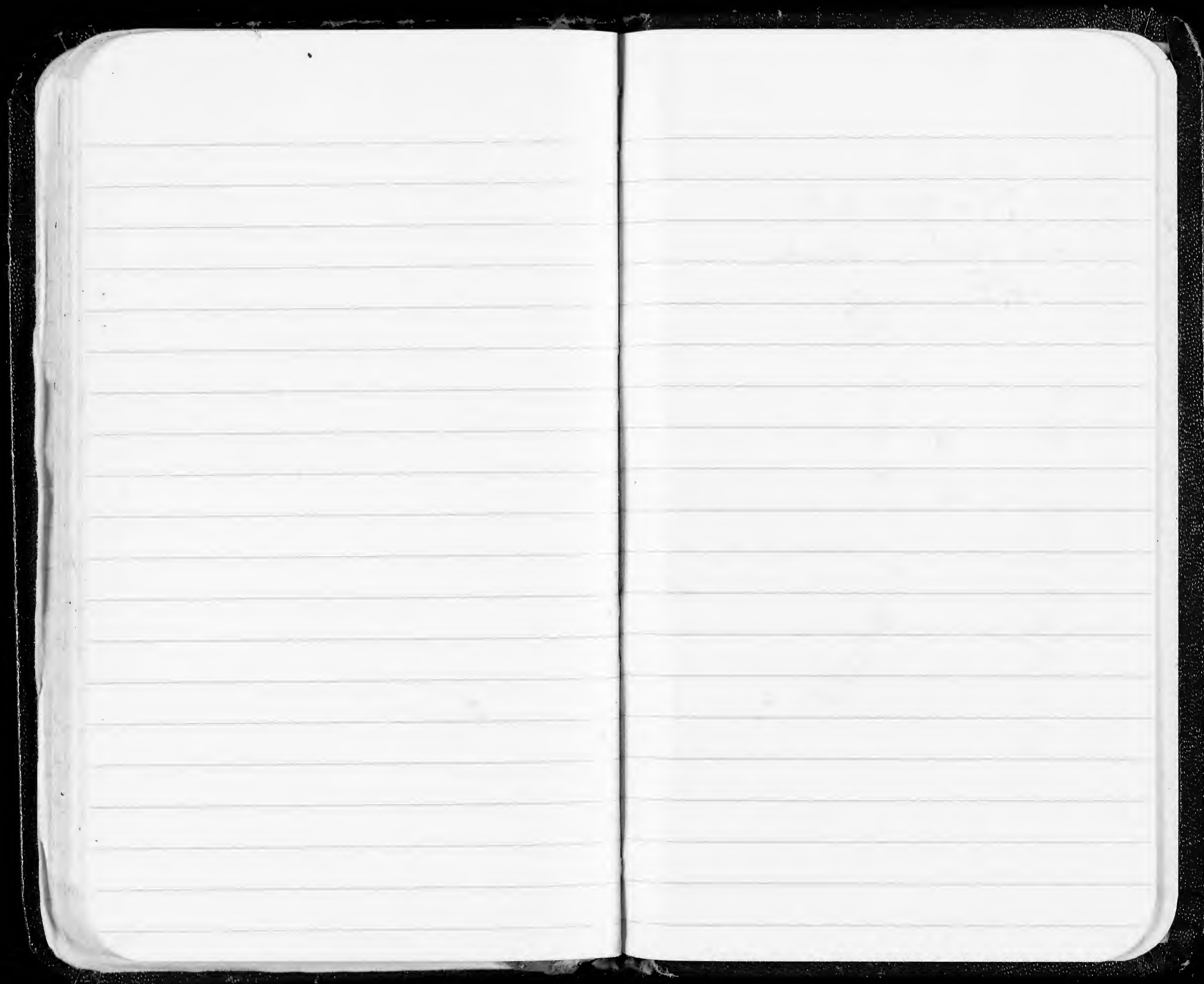
low 60's to low 70's on average

lagoon water temp ~ 68° F - 70° F

water temp at reef ~ 70 - 72° F

7

2



284
516
200

667-39207
737-95030-LA
red plastic band
NAF

56
66

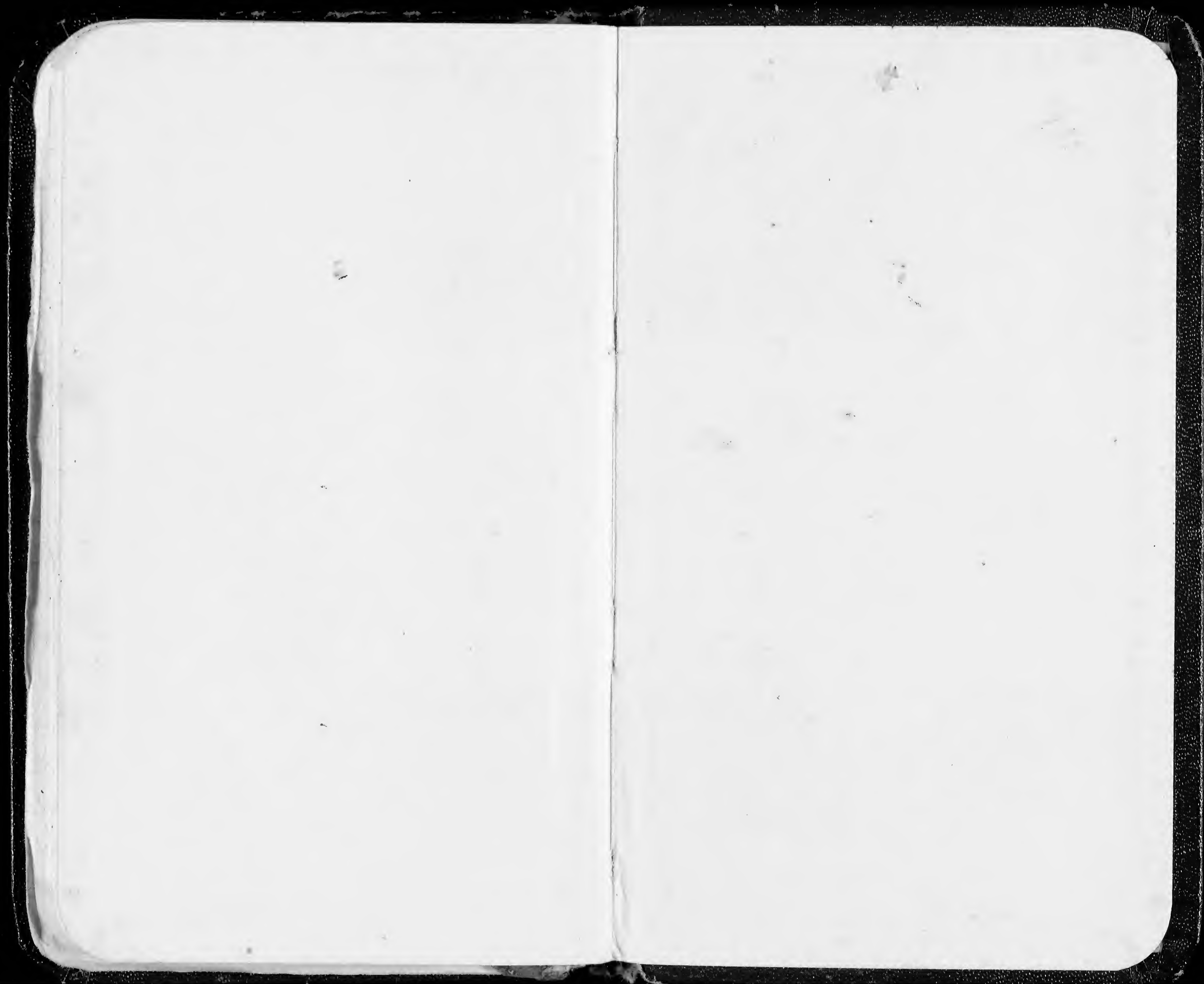
14
5
20

18
5
60

314
8
112
5
121

14
7
98
13
111
10
121

14
7
98
13
110
121



7530-222-0078
FEDERAL SUPPLY SERVICE

GPO c43-16-78124-2

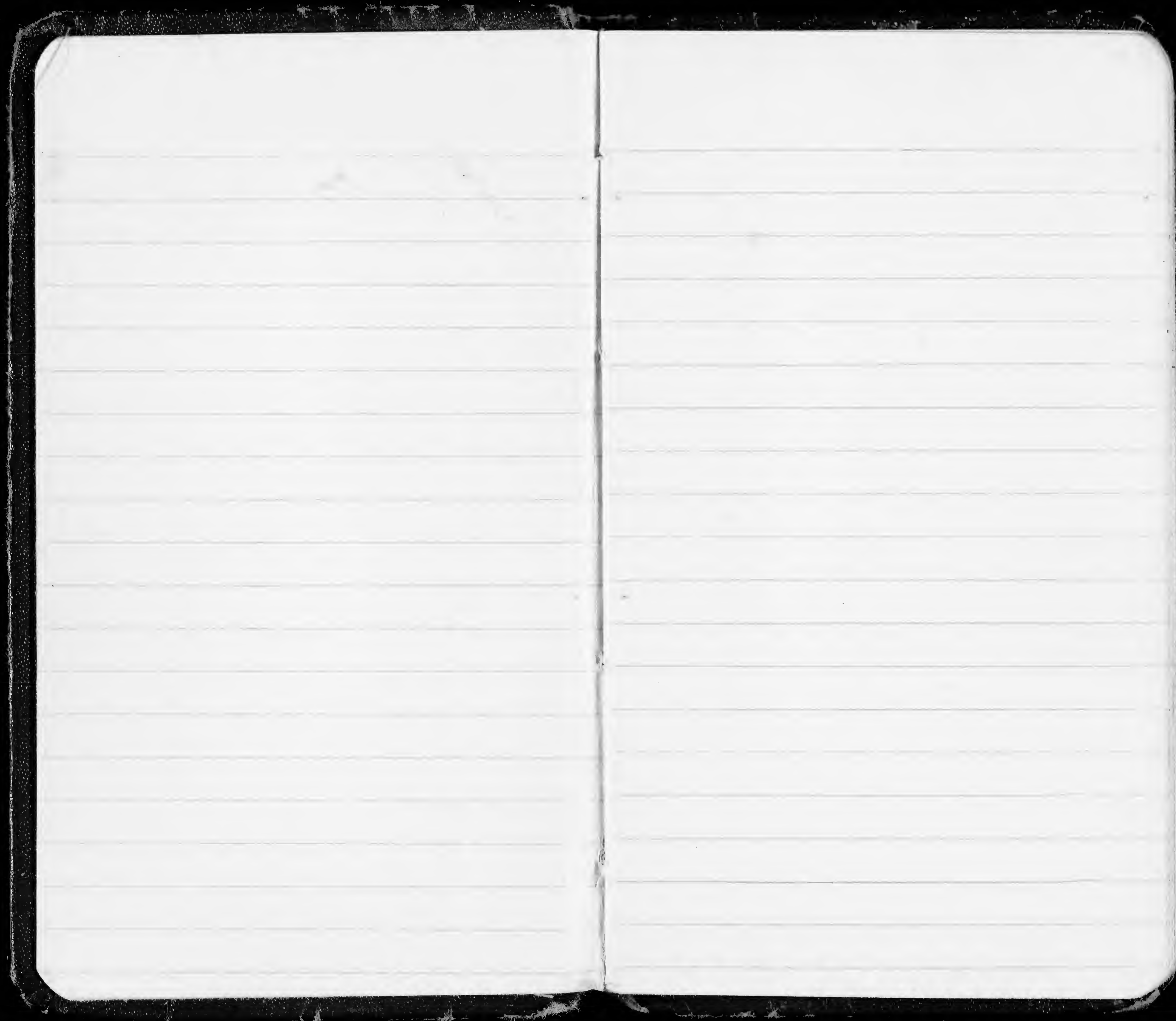
Memoranda

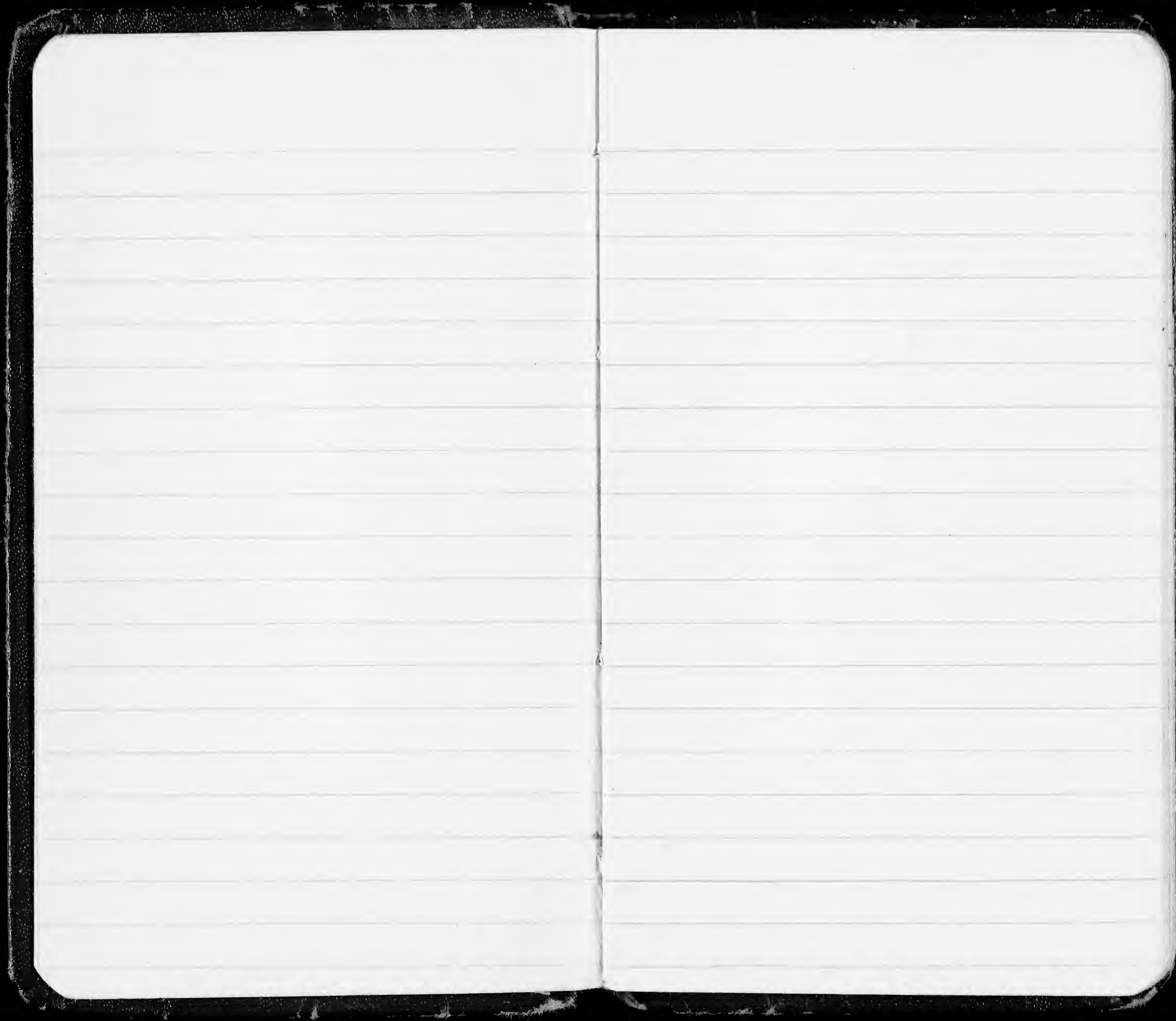
Dana -

Kure

1969







1 March 69 ✓

BIP NAF

sky clear, wind 6-8 SSW
moon 2nd quarter

new bands used: 943-88564-75

#64 PBP

65 "

66 "

returns & repeats

943- 88990
88510

✓ 2 March

RTTB 1400 count (51 TD

(60 vk

1 bird caught in SAF, landed
& streamered

5 seals N. of 11:00 AM

1 swimming along NEB

1 turtle between reef & NEB

2 March ✓

BFB nest check

#1 chick

#21 2nd egg 63.3 x 45.5 //

#22 1st egg 64.4 x 47.1 //

#9 ♂ blk center spl.; brown spl. 7

/ 2 March

BIP. JAF

new band. 943-88576

943-88577 lost

2 March



BIP SAZ

new bands used 943-88578 - 600
8:15 - 845

17 new bandings

returns & repeats

903-03138 w/#581

943-88292

903-13184

2 March

Sunset Roost Count North Roost

Sunset: 1853

sky: 10% clouds (high, north + east)

wind: NW 5-6 kts

GF immad 12 } in front
adult 7 } of tower
others 88 + 3 on guy wires
flying 4

RFB locals 0
others 228 includes 1 wht. brow.
flying 10

3 March

RFB nests studied again Central Roost

#7 egg broken under my harassment

#9 737-45281 //

#6 abandoned (no signs of egg)
in same bush as did #16

3 March

✓ BIP SAF

A	930
B	934
C	932
D	507
E	340
F	unattended
G	33953
H	438
I	576

BIP NAF

new bands used 943 88601-616

603 no BP

607 "

returns & repeats

943-88990

~~88170~~

~~88179~~

88992

88963

3 March

LA

new bands used 767-47601-47612

4 March
 BIP NAF
 already abandoned 1, 2, 3, 13, 17, 18
 7, 19

measure eggs in all nests beyond
 # 30

new bands used 943-88618-620

31	51.2 x 38.6	
32	49.4 x 37.3	
33	49.7 x 35.9	
34	prev. measured 48.6 x 36.0	
35	49.9 x 37.4	# 618 burrow only
36	48.2 x 39.8	# 619 about 25' long
37	48.9 x 36.5	# 620
38	47.0 x 37.0	
39	49.6 x 35.5	

/ egg + bird pres
 - bird pres, can't reach egg

#	nest check	status	#	status
4		✓	24	✓
5		✓	25	✓
6		✓	26	✓
7			27	✓
8		✓	28	✓
9		✓	29	abandoned
10		✓	30	✓
11		✓	31	✓
12			32	✓
13			33	✓
14		✓	34	✓
15		✓		
16		✓		
17				
18				
19				
20		✓		
21		✓		
22		✓		
23		✓		

4 March

B

a

BIP SAF

A "

B "

C "

D "

E both birds present

F alone

G "

H "

I "

BIP SA2

new birds used 943-88621 - 677

647 - no BP

670 "

returns & repeats

943-88081 ✓

88227 ✓

88084 ✓

88563 ✓

88372 ✓

88600 ✓

88563 ✓

903-13365 repeat

03301 w/627 ✓

15091 w/624 ✓

~~15085~~

03806 w/645 =

cont

4 March

returns & repeats cont.

943-88555 ✓

88543

88058

88308

88365

903-03339 w/661 ✓

03375 w/669 ✓

943-20261 w/71

5 March

Shorebird count

NWB RT 7
GP 2
S 1
8:40

N Pt. RT 1
7:58

NEB RT 1
GP
S 2
2 seals on
beach
1 swimming

8:18

Runway RT 11
GP 8
S

8:55

5 March

737-90170 BFA recovery
~~NWB~~ NWB
back chewed by rats

5 March

Sunset Roost Count

sunset; horizon obscured 1853

wind SSE 12-15 kts.

sky: 85% cloudy

RFB locals 0
others 154
flying 24

GF immatures * 11 } in front of
adults 47 } tower
others 67
flying 22

5 March

BIT NAF

new bands used 943-88678-700

returns & repeats

943-88172-

903-13027

88450-

88913

88209-

88182-

753-33319 w/681

88953-

88463-

5 March

LA: Roosting EERW, SAF,
NAF, NWB, NPT.

new bands used 767-~~7~~613 - 700
701-800

6 March ✓

RFB nest study area
nest # egg measurement band #

nothing

RTTB

new bands used 645-12368 ✓✓
green streamers

6 March

✓ SFB nestcheck

#22 2nd egg 40.5x 47.3 ✓

• 3 unattached (eggs cdd)

#1 2nd egg hatch

BIP SA2

8:25 PM

turning

9:25

new bands used 943-88701-800

943-89001-005

returns & repeats

943-88226 ✓

~~88702~~

7 March

BIP SAF

egg meas.

✓ 54.4 x 38.0

BIP NAF wind W. 20-25
clear, no moon (3rd quarter below hor.)

new bands used 89006-036

007 no BP

17, 20, 21

30 on egg

returns & repeats

943-87964 ✓

903-3204 ✓

88 464 ✓

88 183 ✓

7 March

RTTB 1400 count up

N - 18-25 kts

scattered clouds

8 March

1400 Tropic bird count
~~69~~ 69, 75 according to Van
sky partly cloudy 60%
wind ENE 15-20 kts.

BFB

2nd egg #23 ✓

67.4 x 45.3 ✓

2nd egg hatch in #2 ✓

Sooties ~ 300 off SE
side of island ~ 1900 hrs

8 March

BIP: WAF nest check

#38 chick ~3 days old

SAF 2 changes in
incubating birds

BIP SAF 2 E wind 15-20 kts.

moon (3rd quarter not rising until
~ 11:30 PM)

sky: ~~cloudy~~ mostly clear

new bands used 943 89057-89100

041 PBD

054 NBP

89101-105

070 "

103 PBD

repeats

returns

943-88625

✓ 103-15462

✓ 793-20567 w/052

✓ 530

✓ 15284

✓ 085

✓ 03156 w/74

✓ 793-21086 w/72

✓ 481

✓ 304

✓ 103-03387 w/73

✓ 627

8 March

repeats

NBP 44, 49, 83

✓ 88624

✓ 728

✓ 428

✓ 368

✓ 582

✓ 793

✓ 349

✓ 106

✓ 746

✓ 675

✓ 372

9 March

RFB nest check
no change, no new nests

11 RRTB: new band 645-12369
Central roost 695-21407

8 Sooty terns overhead
12:30 PM

60 (by count), swirling off
east side of atoll (1400)

1 fairy tern overhead 1400

9 March

BIP egg meas. SAF

✓ 54.7 x 38.2

✓ 52.4 x 38.5

BFB nest check

✓ #22 unattended

#10 "

9 March

Sunset Roost Count (North Roost)
sunset horizon obscured count made at 1855
sky 75% cloudy
wind NW 11-14 kts

GF immat. 10
adults 42
others 101

ΠFB flying 35
roosting + nesting 270
flying 12

9 MARCH

BIP NAF 9:05 PM
new bands used 943-89106-25

repeats	returns
943-87965	753-33160 w/107
88458	33088 w/106
88907	
88953	
87924	

10 March

// RTTB new band 645-12371
streamed

BIP NAF
1 #28 chick present
SAF

\ egg measurement 51.7 x 39.0

10 March

BFB #4 egg hatch

BIP SAZ 8:15

new bands used 943-89126-189

172 PBP NBP 4 22 25 26

repeats

returns

✓ 943-88600

✓ 903-13317

✓ 88096

✓ 773-18259 w/148

✓ 88045

✓ 793-21274 w/150

✓ 88074

✓ 88751

✓ 793-20575 w/169

✓ 88265

✓ 753-33726 w/183

✓ 88144

✓ 87942

✓ 903-15064

✓ 88115

✓ 903-15301

✓ 88385

✓ 88238

✓ 88384

✓ 87930

✓ 87994

10 March

767-47801 - new bands used
900 901 - 48000

LA

~~737-47979~~

11 March

BIP NAF 8:20-852

new bands used 943-89190-200 ✓
NBP 97,92 ✓

✓ returns

753-33091 w/199

753-32627 w/200

✓ repeats

943-88953

166

514

914

326

no moon
mostly cloudy
light northwest-
ely breeze

no swirl of Sooties located
today - by 9:00 PM back
over central roost in numbers
+ north roost

1 Christmas Is. Shearwater
seen flying over island
~ 1910 hrs.

✓ 11 March

Laysan Albatross captures

~~887-06643~~

~~697 82947~~

~~88847~~

~~22795~~

~~02198~~

~~22668~~

~~90273~~

~~90272~~

~~597 53782~~
~~45853~~

~~667-42935~~

~~39442~~

~~39358~~

~~39244~~

~~39448~~

~~39475~~

~~757 70654~~

~~94691~~

~~85465~~

✓ 11 March

Laysan Albatross captures

~~737-91264~~

~~94518~~

~~47057~~

~~90774~~

~~98269~~

~~92574~~

~~15582~~

~~47085~~

~~93327~~

~~94282~~

~~95087~~

~~95381~~

~~97379~~

~~90284~~

~~95134~~

~~93419~~

~~10306~~

~~16763~~

~~95343~~

~~92045~~

~~92585~~

~~45782~~

~~95050~~

~~97230~~

~~95103~~

~~92592~~

~~737 92043~~

~~90033~~

~~46092~~

~~92274~~

~~96583~~

~~95321~~

~~93639~~

~~95317~~

~~95330~~

~~96616~~

~~94526~~

~~94493~~

~~90027~~

~~96611~~

~~96331~~

~~94256~~

~~94244~~

~~92110~~

~~95045~~

~~91431~~

~~17371~~

~~93431~~

~~91860~~

~~94125~~

~~92530~~

~~98591~~

~~96563~~

~~98023~~

~~91843~~

~~95016~~

~~737 97816~~

~~94407~~

~~96482~~

~~96619~~

~~95341~~

~~94869~~

~~11731~~

~~90428~~

~~19226~~

~~98600~~

~~94456~~

~~95550~~

~~98040~~

~~96874~~

~~95607~~

✓ 11 March

Laysan

Albatross recaptures

737-587 91751	767-52000	767-46187
72226	46111	47665
91927	72098	46197
91981	51050	47755
91713	46217	46276
91707	46128	46188
715	47709	46199
718	47717	46191
466	46146	47723
733	46229	46285
735	47736	47684
572	46167	47764
704	45306	47767
996	46237	46308
71231	51594	47687
91737	46243	47763
738	40477	47759
27003	19723	47742
91967	47660	46284
85818	47651	47777
85817	46173	
	46177	
	47629	
	47743	
	46184	

11 March

B F Albatross recaptures

737-97488 ✓ 587-58842
98694 ✓

767-51084

12 March

Shorebird count

NWB RT 5 S 7:50
GP
N Pd. RT 2 8:12
S 1
NEB RT 3
GP
S 2
R Way. RT 14 8:30
GP 11 9:02

1 seal in water off NEB
4-5 sets of fresh tracks

12 March

RFB

- 767-45821 (nest near #1
green streamer no egg yet.
old #29

Sunset Roost count

~~5:00~~ : N to NNE sky: 55% cloudy
wind: ~~10-12~~ 8-13 kts.
Sunset horizon obscured cont at 19:01

GF immatures 9
juv. 28
other adults 23
all others 92
flying 12
} in front of tower

RFB locals 0
others 228
flying 16

12 March

BIP SA2 8:20

sky: 50-60% cloudy

wind: 9-13 kts N

no moon

new lands used 243-89201-248

206 RFBP

218

squats

943-88301

082

87994

87930

88058

88060

89148

88384

returns

903-03829 /w 103

15084

793-21419 w/ 223

20811 w/ 240

21131 w/ 238

BIP egg measurement

52.5 x 36.6

13 March

RTTB 1400 count 95

wind 9-14 Easterly

sky - 45% cloudy

645-12372 + 73 pair

new
lands
used

returns

635-16538 SEB

BFB #3 1st egg hatch
#4/2nd egg hatched #10 unattended

new nest #24 9 blk center spt, red spt. 4
NAF on " " " 5

BIP

egg 70.8 x 45.1

egg 49.6 x 35.3

SAF

13 March

BIP NAF

new lands used 943-89249-272

RFBP. 252, 251

No BP 271

repeats

943-89198

88909

88316

88946

88979

89106

~~89182~~

returns

773-18295 w/250

return from SAF

843-70685 w/ 273

de feathering BP

13 March

RFB 737-45323 (adult)
north-roost

14 March

150
1335 N 125 Sooties
swirling off SEB

RTTB 1400 170, 2-5 kt. wind
easterly, sky clear

new lands used 645-12374-76

74+75 as a pair RW.

76 BFT

14 March

542
BTP ~~NAF~~ 8.20
sky: ~5% density, no moon
wind

new lands used 943-89274-300

NBP 277, 280

301-318

PBP 279, 316, 318

repeats

943-8801

88044

88483

88295

88161

88045

88108

88378

88428

87943

88132

88246

88226

retains

903-03842

03408 w/276

15109

793-20639 w/298

753-33963 w/299

753-33957 w/300

903-13196

15 March

~30 GF nests in north
roost areas

1 fairy tern overhead (1730)

Sooties in swirl egg NEB
~750 scattered in pool + small
gangs flying in over island (1800)

~10 grey backs egg NEB

15 March

BIP dAF 8:20-9:00

overcast no moon 2-5 kt wsw
wind

new bands rec'd 443-89319-39

RBP 35, 37, 39

repeats

443-88567

88619

89113

returns

903-13024 436

16 March

RFB North Roost

behind 12th Marsh. bush

3 new nests, no new eggs

1 w/ egg prev. meas.

2nd Marsh. bush 17 w/out eggs
2nd egg prev. meas.

55.2 x 38.2 (new egg)

14 no egg $\frac{4}{3}$ prev. meas

1 chick

63.6 x 42.6 (new egg)

(1 w. wht. phase w/ green stream)

4 $\frac{3}{2}$ w/ no egg intersect. of paths

1 w/ no egg 2 prev. meas.

knoll w/ new path

16 March

infant tower

27 w/ no egg

8 prev. meas.

56.1 x 39.9 new egg

Central Roost

7 no egg

2 prev. meas

w/
2 ~~no~~ egg

7 contents?

16 March

Sunset roost count Central Roost

sunset: 1903

sky 5-10% cloudy

wind wsw 5-8 kts.

Central portion

GF males 18

immatures 4

other adults 43 (20 by ♀'s)

flying 2

RFB locals 0

adults 152

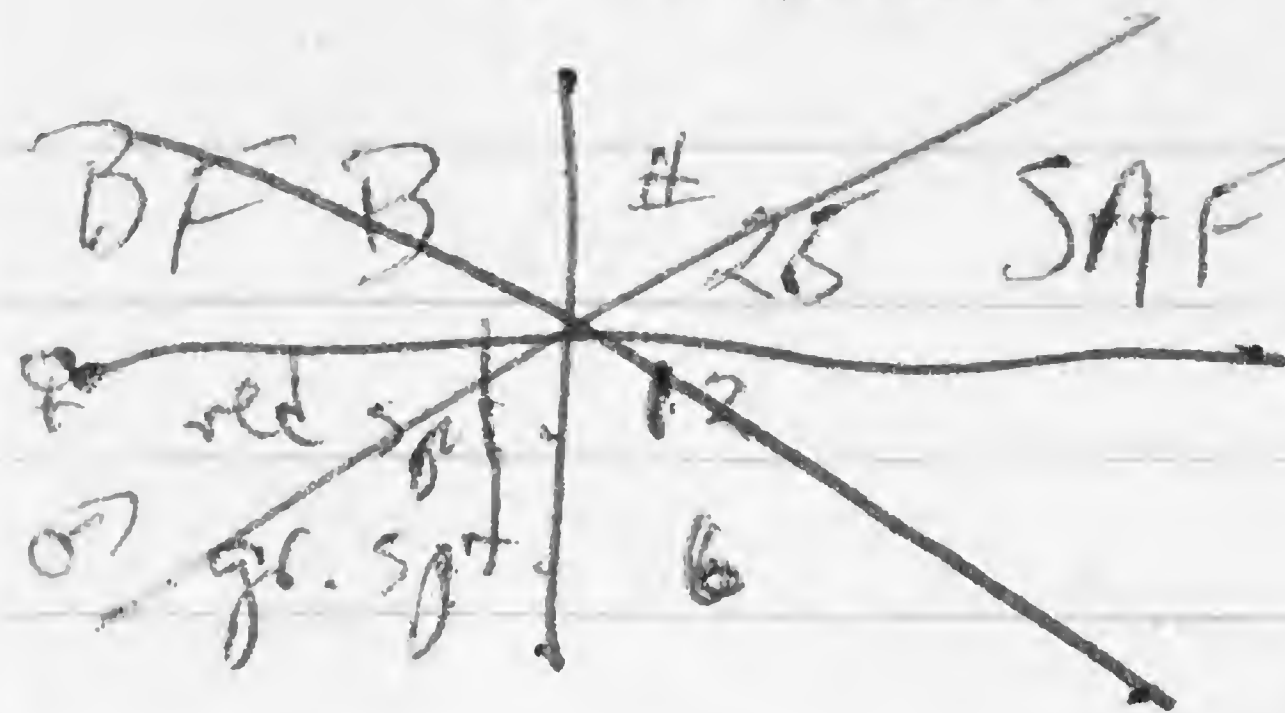
West portion

RFB locals 0

adults 88

RFB flying 13

16 March



BIP SA2 8:15

wind wnw 5-8

sky 20% cloudy no moon

new bands used 943-89340-70

RFBP 44 (41) 55, 52, 69 NBP 56
imp lft. leg

repeats

943-88082

124

396

131

87998

941

88744

943-84245

070

returns

903-13184 repeat

03019 w/ 42

15192

14702

753-33308 w/ 54

No BP

17 March

RTTB SW B

new bands used 645-12378-7711

both on eggs green stroke

0400 count 92

10% clouds, wind southerly 3-5

BFB nest # ⁹~~28~~ transferred
10 unattended chick dead
♀ on 3 again

BIP nest 5 egg hatch

immature Br. Wt. RFB

flying over NAF

2 imm. BB (only 1 painted)

17 March

943-89371 used to reband

793-21008 in SA 2

NAF 5:30-8:50

new bands used 943-89372-389

repeals

943-88682

615

442

510

returns

943-89253

030

Lap Sam.

new bands used 767-48945-49000

467-51673 - 51700

767-49301 - 49350

BFA

767-46058 - 46065

✓ 17 March

Lay Sam Albatross returns
repeats

587

587

697

91830
91855
91665
91646
91847
91658
91648
91652
91790
91673
91694
91684
66389
51692
91793
91796
91884
85806
91893
85790
85777
91913
91647
91922
85796
91873
65829

91750
91575
91751

82105
85968
79887
90389
90391
90418
90417
24573
90644
90591
22372

737

97101
96067
13642
96464
92022
45640
92075
96854
97009
95671
95670
95652
99164
97129
92215
95626
91309
99240
95483
98141
97036
95489
95276
95487
97305
97144
96394
93283
95299
92160

737

94336
92352
98249
93460
96312
97177
94354
96629
97093
96153
10518
96736
97532
95417
95439
95656
95412
94850
94779
95223
95207
97342
93364
96240
97113
95202
95185
45993
97358
92140

737

95159
95146
95152
96383
94270
15108
93868
90778
93419
90799
97228

✓

17 March

767

767

767

46330
 47802
 45377
 45335
 47901
 71639
 51895
 47925
 46355
 46416
 51862
 46669
 46379
 46310
 47951
 47881
 46451
 51952
 51829
 47991
 46621
 51985
 47611

17 March

✓

667

597

887

39310

46430

44978

39080

39628

39770

39665

757

72323

17 March

BFA

✓ 597-84149	✓ 737	✓ 747
	✓ 97494	✓ 78032
	✓ 97463	✓ 46058
	✓ 97827	✓ 92742
✓ 697-22965	✓ 98670	✓ 77338
	✓ 98522	✓ 51075
	✓ 97476	
✓ 887-13735	✓ 98523	
	✓ 90961	
	✓ 97475	
✓ 667-93911	✓ 91631	
	✓ 99858	
	✓ 99862	
	✓ 45600	

18 March

~~new bands used 747-50901~~

RFB nest study area

nest # egg meas. band #

returns

737-98447 gr. str. ✓

#11 chick

RTTB

~~new bands used 645-12379~~

18 Mar.

BIP SAZ 8:15

no moon, wind 55w 18-22k

new bands used 943-89390 - 446 44 43

RFBP 90, 91, 93, 96, 97, 99, 400, 421, 20, 16

NBP 417, 35, 34, 33, 40 } 36, 41, 42, 45

repeats

943-88670	89245
600	074
232	152
800	
152	
428	87980
744	
547	
257	
751	
535	
769	
096	
524	
474	

returns

793	21154 w/92
903	13186
	13316
	03143 w/98
	03151 w/422
773	18004 w/419
903	13037
753	33990 w/37
903	03364 w/39
	13322
{ 903	15391
{ 773	18267

18 March

BFA

men

18 M.

LA.

767

767

587

667

35435✓

74621

46112

47635

51045

51047

47978

46137

46129

46224

46142

46251

46151

88766

46147

47792

47714

46240

46233

46172

46252

46259

46183

46190

46265

46263

46196

46273

47751

46198

51861

46299

47700

47782

91934

91957

66548

91984

71249

91857

91704

91997

36967

85813

91530

LA

737

737

47050

95132

97225

95382

95167

92565

97119

95351

95063

91126

92588

94605

95306

10321

95336

97006

93099

96878

94896

95038

99066

95050

96637

95008

11293

92796

94152

90571

13160

96563

95056

95012

94750

95034

94763

90322

96619

45887

95539

98598

94730

95517

95606

✓ 19 March

~~Sooty tern path leading from~~
903-05547 ~~NAP~~

BIP 8:20 - 8:50

raining

newbands used 943-89447-66

RBF 48, 50 NBP 49

repeats

returns

94388	176	89021	773-18218 w/51
	436	87921	
	681		

✓ 20 March

seals 2 NEB early aft
1 NWB

BIP 50.0 x 38.3
FFT (infertile)

BIP 5A2 8:20

moon 1st quarter, sky 45% cloud

wind

newbands used 943-89467-522

NBP 68, 74, 14

RFBP 70, 71, 72, 73, 75, 95, 99, 16, 17, 18

repeats 89075
175

returns

943-88227

89

903-15390 repeat 903-14781

15284 repeat 13074

058 083

782
254

074 302

88488 w/793-20230

074 372

736

~~212~~ 232

462

376 102

132

735 075

793-20525 w/94

903-03710 w/96

813-91005 w/15

✓

20 Mar

BIP SAZ

repeats

783-89343

-87930

88299

returns

903-13303

~~RFB W.R.~~~~737 - 45277~~6 wed. tails
1 cis

21 Mar ✓

✓ RTTB 645-12379 (new band)
gr. str.

(caught across from lab.)

return same area
645-12230✓ new band 645-12380 gr. str.
whip antenna behind tan. bldg.
gr.

1400 count 345

sky 5-6% clouds wind NNE 7-10 kts.

✓ 21 March

~~RFB (Central Roost)~~

~~returns~~

~~737-91670 (former seen sample) repeat~~
~~✓ 767 5668 " " " ~~repeat~~~~
~~✓ 737-98390~~
~~✓ 737-99549~~
~~✓ 767-46913 (8)~~

~~new bands 747-50701~~
~~gs. str.~~

~~702 (nesting?)~~

~~BIP SAF~~

~~nest K egg hatch~~

✓ 21 March

BFB 22 unattended

10 unattended (1st egg broken -
perhaps chick had pecked its
way out as was $\frac{3}{4}$ out of shell
& covered by ants)

8 unattended

BIP NAF 8:45

sky: clear, moon 1st quarter, wind N 8-12
new bands used 943-89523-50

RFBP 28, 27, 26, 25, 23

24 stump 1st leg

repeats

87954
89034
89019
88619
87973
89466

returns

903-13022

✓
North ~~coast~~ RFB returns

~~737~~ 737-91676 96745221

737-45301 46992

737-9158486 98429 46993

98393 45805

45343 51382

99566 45931

45158 51357 (on egg)

9063866 45914 66

99810 68 45931

91059 86 45539 86

92876 66 46988 66

757-36120 45513 66

467-39612 66

21 March

G F returns

G F ♂

♀

767-51207 737-98317

767-45161

767-46505

~~77-51564 imm~~

~~51558 " (whit. head~~

~~51557 " " w/br. sp.~~

~~51560 " " rusty head~~

~~501 ♂ 516 ♀~~

~~502 ♀ 517 ♂~~

~~503 imm 518 ♀~~

~~504 ♂~~

~~505 ♀~~

~~506 ♀~~

~~507 imm~~

~~508 "~~

~~509 "~~

~~510 ♂~~

~~511 ♂~~

~~512 imm w/ head rusty throat~~

~~513 " " "~~

~~514 " spec. rusty head~~

~~515 " wht. head~~

new bands used

501 - 518

22 March

BFB

1st chick #12 dead

22 unattended

8 "

10 "

one new present NAF

2 fairy terns over SAF

Sooties over M. roost 1800
" C. roost

22 March

BIP 5A2 8:20
moon 1st quart. 40% clouds ESE 8-12 k
new bands used 943-89551-97
NBP 5K (flying) 53
RFBP 56, 55, 54,

repeats		returns
943-88600	748 w/	903-15284 repeat
373	494 w/	15390 repeat
081	89481	15289
301	516	14778 repeat
159	447	15279 repeat
381	418	15109 repeat
588 w/	301	15107 repeat
427	87995	
065	939 w/	
737		793 20664 w/87
394	89369	
404		
384		
360		
729		

22 March

RFB: Central Reef

767-45285 937-96861 bh.
✓45854 ✓45420 gh.
✓46976 bh. ✓167-46938 gh.
✓45235 bh. ✓97583 bh.
✓45236 bh. ✓91786
Midway (40184) bh. ✓99535 gh.
✓46954 bh. 767-45244 (767?)
✓45209 gh. 737-48469 repeat
✓45933 747-55095 wake
✓51352 (former seen)
✓51346 bh.
✓45861 gh.
✓767-45242 gh. stem. repeat
✓767-46909 737-42915 (4)
✓45997 ✓46917 gh. 2 pr.
✓54912 (former seen) ✓95974 bh.
✓737-95939 repeat ✓98194 (11 ♂?)
✓767-45533 ✓737-98409 gh. 2 pr.
✓45437 bh.

22 March

Central Reef

G F
new land
519 ♀

✓ 23 March

Sunset tower count
herring described - coastal 1904
overcast wind 9-14 S

GF in pt. of tower
ad ♂ 21 ad ♀ 22 unmet. 11
undetermined sex 16 70 total
all others 133
flying 6

RFB in pt. of tower
subadults 2 adults 60
all others 210
flying 15

1 C1 Shearwater flying
caught + banded

✓ 23 March

1300 hrs. 7 common nodules
on N. point

~12 greybacks flying around
N. pt. + occasionally landing
2 jaegers flew over N. pt.

~50 " " roosting N. pt.
1900 ~12 greybacks along NWB
~200 Sooties over N. point
another 400-500 off N. E B

✓ 23 March

BIP NAF 825

wind: southerly 9-14 k

sky: 90% cloudy

moon: 1st quarter

new banded 993-89598-620

repeats

943-88511 87
167

returns

753-32623 w/618

89252
034

✓ 23 March

~~BB returns NAF~~

~~BF B new band ⁷⁶⁷ 49520~~

~~EE R W~~

~~other bird flew~~

24 March

RTTB count at 1400 312-325

sky 45% cloudy with E 12-15

SW-B

✓ new bands used 645-12385 — 91

88+89 on eggs (mates green banded)

BIP SAZ 825

sky 80-85% cloudy, moon 1st quart., wind SE 14-18

new bands 943-89621 — 50

NBP 26

25 (flying)

repeats

88477 372

093 523

158 710

343 798

556 345

351

117

486

549

89052 w

349 w

356

574

436

87

returns

903-13365 repeat

03171 w/28

15320 repeat

773 18461 w/27

903-15153 repeat

15220

15287

24 Ma ✓

WTS 5A2

605-12756 w/77

258
179
337
LA 24 March

697	737	737	737
89515	12040	98089	93147
90495	12312	47439	91222
22229	93691	96312	96949
22132	95672	95551	95161
22135	92022	92372	95710
90697	98087	97650	91710
90725	16562	97167	96151
22342	96464	95277	14379
90746	12843	98902	
22419	94340	98909	
22278	95679	95230	
87002	98867	99196	
	99237	96261	
	98901	95437	
	92215	98792	
	93481	98033	
667	98071	95242	
39629	95493	47304	
37784	45894	90077	
	95661	45957	
	46011	97338	
	47452	98824	
757	12720	97519	
95449	95203	95274	
	47456	98922	
	95545	98786	
597	97010	96116	
50388	94497	10590	
	96134	97193	
	90882	99056	
	99461	95169	
	97228	91236	
867	98826		
	10430		

43
54
102
337
102
439
26
465

767-49458 - 500 → 659

767	767	767	587	587
54101	87117		91636	
47805	47864		91644	
46391	46465		91814	
51688	51962		91650	
49350	51971		91770	
51845	46488		91813	
46338	46490		91688	
47826	46492		66389	
47821	46499		91691	
87778	46443		91679	
51934	51989		91794	
47839	45345		91901	
47833	49347		91599	
47810	47610		85789	
71737	46401		91899	
47898	49348		85781	
45399			91522	
48972			91873	
49398			91605	
46317				
46387				
51835				
49302				
47883				
46466				
46462				
47956				
49305				
51900				
47943				
46863				

BFA

24 March

~~737~~
~~92657~~
~~97284~~
~~99838~~
~~97530~~
~~97943~~
~~99974~~
~~98618~~
~~91730~~

~~767~~
~~46048~~
92442

~~597~~
~~84149~~

~~757~~
~~77306~~

~~697 90062~~

25 March

RTTB

crew bands used - 645-12392 - 405

98 on egg

returns 615-10451

1400 count 435

BIP NAF 8:35

wind ESE

sky

moon 1st quarter

new bands used 943-89651-55

wind ~~SE~~ 14-17 ESE sky 30-35% cloudy

moon 1st quarter (end)

repeats

returns

88 89 87
197 198

753-32885 w/54

645-12023 w/85 Wedgetai new band
16

25 Mar

LA

~~697~~

~~22758
22494
22800~~

737

737

737

95320

96623

92523

91855

95061

96843

99037

95538

96624

38558

95329

11029

97203

90664

92576

97242

93260

96464 *

93415

98269

93109

93677

93861

96664

94317

92978

94279

95173

96979

95343

95074

95355

94211

47018

98271

95319

25 Mar

767

767

767

587

587

47662

47675

47747

47673

46137

47761

47682

47681

49381

46285

47754

47666

46193

47758

47785

46286

47759

46297

46284

47754 *

49452

51980

46110

46117

46384 *

47715

49432

46127

46227

45340

47721

90972

91798

91528

91534

91729

91714

91725

91979

91736

72453

91721

91706

91996

91703

Laysan new lands
767-49660 - 49762

Accid. disc. BIP
check in SAF

26 March Shorebird Count

730 NWB RT18 GP2 SI

4 fairy terns

754 NPT. 38-45 g bles

1 seal

RT 2

757 WEB SRT 25 1GP

12 fairy terns

1 seal

817 RW 10 RT 7 GP

at least 8 fairy terns

850

26 March

RFB Most study area

returns : 767-46935

nest #

egg meas.

13

64.6 x 40.3

14

59.5 x 41.7

15

58.8 x 39.4

nest #8 has chick

RTTB newband based 645-12907-410

07 Cen. Roost

Returns

08 nest study area

585-52215 Cen. R.

09-10 SEB

615-10139 nest. st. a.

-10284 "

6 seals on N. Gl. 1600 hrs.

26 March

Sunset roost count N. tower
sunset 1905 sky 98% cloudy wind ESE 12-15

GF 18♂ 17♀ other ad. 7 imm. fl.
18 immat. 79

others 157

flying 8

RFB 3 sub. adults 155 adults imm. fl. tower

others 196

flying 25

~ 125 - 45 Sooties over N. Roost
~ 450 - 500 more over NEB

26 March

BIP SAZ 8.30

sky wind ESE 12-15
moon begins 2nd quart.

new birds 943-89656 - 67
56 no left leg

reports

89 88 87
384
121
467

returns

903-15398 repeat

WTS:

61 (40 Sea samples)

CIS 2

27 March

4 fairy terns in Casuarina trees
behind shack 1300

1400 RTTB count 420 95% dandy
10 k wind E

BFB

#25 SAF ♀ 8.8.7 70.0 x 47.6
♂ 6.4.9

#26 NAF ♂ 6.4.9 65.3 x 42.6
♀ 10

#27 NAF ♂ 6.4.9 64.4 x 47.2
♀ " " 6

#28 NAF ♂ 6.4.9 67.4 x 45.7
♀ " 8

27 March

BIP nest 2 hatch (SAF)

BIP NAF 8:35
new bands and 943-89668-677

repeats
88 89 87
619 121 596
373

returns
753-32697 w/74
-33849 w/77

~~RTTB SAF~~
~~615-10318~~

28 March

RTTB - return SAZ
615-10318

♂ 16 red sq. 6

BIP SAZ 8:10

wind easterly 16-21 sky 98% cloudy moon 2nd quarter
light showers giving fair light through clouds.
new bands used 943-89678-97

repeats

88	89
097	180
294	075
240	157
223	295 w
061	88
060	269
421	769
735	424
250	357
747	

87
990
934

89
071
472
186

returns

903-15146 rep.
15119
793-20474 w/85
20872 w/92
903-03243 w/94
repl.

28 March

WTS SAZ

705-12072-

635-16603 w/72

BB

587-52715 ♀ SAF

29 March

egg given to BIP nest I
has hatched

Sunset ~~count~~ count
Radar reflector

sunset

sky 80% cloudy

wind 20-25 k. easterly

RFB subadults 2 ^{cent pos. west pos.}

others 191

flying 11

96
8

GF ♂ 4

♀ 4

subadults, immat. 7

others

flying 4

63

29 March

CIS at least 5 seen

Circling SA2 + Scaevola
between there + the beach

1 pair captured in thick Scaevola
betw. SA2 + beach

new bands 705-12073 + 74

BIP d AF 830

new bands 943-69098 - 706

repeats

87	88	89
924	199	387
922	464	673

re turns

793-22362 w/99
xpl. 903-03788 w/700
xpl. 13027
793-20890 w/06

29 March

WTS new bands 705-12075-88

returns

635-16883 w/76

~~705-10996~~

635-16887 w/78

615-88250 w/80

635-16317 w/83

BB w/AF

returns 737-95817 ♂

737-45700 ♀

587-52715 ♀ prev. caught in SAF

Fairy tern newband 682-47321-22

21-Marsden tree M. roost.

return

NEB 642-00188

22-Scavola NEB

30 March

CIS 1430 hrs. path in
514-76739 M. roost

RTTB newbands 645-12411-15

SWB

SEB

11

16 (on egg)

12

13

635-16088

14

15

CIS

705-12089

SEB edge of Scav
1630 hrs.

3 seals M. pt.

2 "

SWB

(gap missing)

1 "

SEB

} after moon

30 March

~ 100 Common noddies } N. pt.
 ~ 35 grey backs } sunset
 ~ 12 Brown boobies }
 1 seal

Sunset Roost count North tower
 sunset 19 sky 65% cloudy
 wind 20-25 easterly

GF ♂ 26 ♀ 16 subadults 16 } in front
 others } of tower
 106 total
 all others 164
 flying 17

RFB adults 154 subadults 2 in front
 all others 186 of tower
 flying 16

30 March

BFB #11 has moved
 nest site about 20 ft
 chick still ok

new nest

WAF 29 8.5 pt. 13 67.1 x 46.8
 14

#16 1st egg hatch

BIP SA 2 8:20
 sky wind easterly 20-25
 moon bright 2nd quarter
 new bands 943-89707-714

repeats

87	88	88	89
986	043	753	047
	102	256	408
	422	114	567 w/
	160	385	690
	638		496 w/
	646		472

repeats

903-13184 rept.
 15136 rept.
 15119 rept.
 15112 rept.
 193-20473 w/13

30 March

SA 2

WTS new bands 705-12090 - 95
returns 705-10859 repeat
96 - 100 dropped in
bushes

SA 2

CLS new bands 705-12101 - 103

Sooty terns Cent. Roost
returns

813-91343 903-17727
05663

new bands 943-89801 - 802

31 March

~ 40 Common noddies + 1 black
noddy on NWB ~ 1045 hrs.
another flock of ~ 50 birds present
on N. Pt. (same time) maybe 1/4
were black noddies + rest were
common noddies. ~ 45 Sooty
terns also present (no grey-backs)
half a dozen or so Fairy terns flying
around vicinity (4 also present
around Casuarina trees behind shack)

Pair of CLS calling 1030 hrs.

RTTB

1400 count 500-520
dry cloud, wind 14-19 kts

31 Mar.

RTTB: new bands 645-124 ~~17~~ 18

SEB

Central Roost

GF: nests w/ eggs III

RFB (stady area)

nests w/ eggs 12 (4 previous) nest 12 no eggs
nests w/ chicks III 4 males 1 dummy
5 chicks 1 nest 1 chick 42 w/ chick 49 dead chick 22 where 10 were 44 w/ chick

new nests			
16	63.5 x 40.9	21	61.0 x 38.4
17	60.0 x 40.4	22	63.6 x 41.4
18	66.5 x 40.8	23	67.6 x 41.8
19	68.3 x 40.8		
20	63.8 x 40.3 (mate of 23)		

(west portion)

nests w/ eggs III prev. meas.

nests w/ chicks II

return

737. 91968

31 Mar

North Roost

GF nests w/ eggs

(in front tower)

RFB nests w/ eggs ~~IIII~~ +

(")

GF nests w/ eggs

RFB nests w/ eggs 3 new prev. meas.

nests w/ chicks

31 March.

BFB: #16 chick dead

#4 has moved its chick about 4 ft.

#13 2nd egg hatch

Bonin nest survey SAF
8 chicks present
no eggs

31 March

BIP WAF 8115

moon bright end of 2nd quarter

wind east 15-20 kts sky 3% cloudy

new bands used 943-89715-18

repeats

returns
703-13035

87

88

89

971

374

442

455

196

BFA. 26

737

967

697

757

887

92632

94988

90138

93630

14429

98537

51781

22960

97465

77096

73951

97444

46059

98661

93430

98648

98660

99973

99974

99960

20

new bands used 767-46072-77 / 6

31 March

LA ✓ 356

697	737	737	737
22311	47003	99327	97949
87705	98804	98717	98775
96516	98973	95276	97045
84649	99517	96749	98786
02291	97130	99249	99345
90419	97004	99298	95244
90418	97212	95474	96434
90417	97068	98820	98815
90637	97939	97302	95257
90668	96500	97413	95224
90808	99365	97164	94658
	91309	95184	97336
667	96380	99335	97059
42693	95641	99422	95586
39711	97140	97051	97023
35230	97118	97191	95459
	99237	90903	98805
	99428	97029	45955
	15556	92372	97920
	95545	92507	97322
	91102	92507 7	98802
	95665	93888	98887
597	94535	97174	96446
	17629	97647	95216
	97007	96938	99445
	92294	97260	94681
	92339	99441	96752
	95543	95430	98826
757	97116	99410	98849
15082	97114	47114	97937
95186	16022	99286	97346
607 red	99456	98857	98734
70933	13515	99472	13096
	15735	97060	45229
887	97360	99480	97372
	99060	95264	98880
	98850	98927	

31 March

382
Total
birds

767	767	767	587	587
46330	49621	46393	91578	
47611	49480	51966	85762	
45321	51835	54320	91754	
51998	51826	51978	91890	
47607	46320	46621	91580	
97241K	46328	49340	84966	
46422	46325	51992	91653	
47854	51933	49346	91658	
46431	46458	49464	91777	
51913	48973	46334	51686	
49461	51825	45345	91870	
51867	46437	49347	91822	
46428	46323		91648	
49463	46445		91836	
51843	46459		91656	
47913	48984		91699	
51680	46383		91817	
51903	47942		91837	
46669	46469		91763	
46462	49636		91902	
48749	47954		91789	
49478	98206 ←		91880	
47808	48996		91692	
51985	47955		91684	
49460	51958		91812	
49690	46472		91686	
47919	98999		91895	
47963	51953		91800	
46427	46477		91589	
46333	49964		91608	
51897	47966		66314	
46314	49766		91923	
	51957		57632	

no 50% of birds caught

253

new bands used 767-49777-879 / 103

1 April

~ 100-125 Sooties on N. pt.

1045 hrs.

3 flocks of noddies (mixed
Common + black w/ Common pre-
dominating) } SWB, NWB, N. pt.
3 seals N. pt. & NWB

C15 : pair located calling
1100 hrs. in Scaevola by
rifle range. 1 bird captured
& banded, other escaped
705-12104

RTTB 1400 count 530-550

oky 20% cloudy wind easterly
13-16 kts.

new bands 645-12419-21 NAF
nest found in Cent. Roost.

1 April

Benin nest survey NAF

4 (c) ✓

6 (c) ✓

8 (c) ✓

9 (c)

11 (c) ✓

12 abnd

14 (c) ✓

18 (c) ✓

16 abnd

20 abnd

22 (c) abnd

23 (c) ✓

25 (c) ✓

27 (c) ✓

30 e ✓

31 (c)

32 (c) ✓

33 (c) ✓

35 e ✓

36 (c)

37 abnd

38 (c) ✓

39 (c) ✓

1 April

2nd egg
#27 62.6 x 46.6
28 61.6 x 44.9

#24 broke foreign egg

BIP SA2, 2020
moon begins 3rd quart. wind E 12-16
sky 5% cloudy
new bands used 943-89719-721

repects
87

88
083
082
578
365

returns
89
314
623
410

WT9 newb. 705-12096-100
705-10539

CLS SA2 514-76685 w/ 705-12105

1 April

BFA (roosting)
~~new bands 767-46078-~~

~~737 767 697~~

only 1 ad. present along
NE B. (not caught)
no roosting birds at M. pt

grey backs & noddies roosting on
M. pt. 0130 hrs.

LA 10 April
(roosting) Antungon
6 miles

697
89052
88847
85012
03758
22638
22830
90932
22894
02198

737
96281
97107
15811
98965
92887
95134
95139
92526
13097
99347
95345
91212
47012
90040
95130
93445
95554
95374
95798
95593
95347
97142
91895
95526
95320
95349
93572
95348
95111
95175
95330
95122
97978
95068
92585
95060
97111
96918

95016
93641
95359
95639
95075
97230
95045
96734
92338
36227
11540
95042
98593
95035
95061
99028
46926
92515
95088
95505
94456
95084
95010
10885
97009
95074
92544
14974
95058
95011
97222
98599
95069
98592
92539
95706
92535
96724

667

757
18422

597
50624

887

wind east 14-18 kts
full moon

767
46134
47802
49651
51891
47740
47622
49725
46653
47623
47726
95629
46212
47716
51587
47729
47701
46245
47791
49740
51991
46170
47629
51169
46230
46412
49357
46139
46144
46241
46171
46183
46182
46188
47746
46247
47678

47687
47867
46190
46344
47727
46253
49715
45374
47787
49704
46288
46222
46291
47671
47692
46400
47766
46280
47768
51586
47780

587
91753
91750
91749
91955
91727
91738
91945
91714
91935
91704
91985
91731
91988
91991
91738
97003
85814
91538
85811
91534
53372
91529

230% of birds captured

168

total 237

new bands 767-49880-950/71

2 April

1 seal, NWB
3 seals, flock (~50) of nodules
(principally Common), ~ 75
Sooties, 7 greybacks on N.pt.
1045

~ 25 greybacks near end of SEB
(flying) 1100

RTTB newbands 645-12422-23
RWB

SWB { bird prev. capt. here
635-16095 (on egg)
635-16197

newbands 645-12424-28

24 (on egg) 25, 26 Cent. Roost

27, 28 SWB

another egg on SWB where bird
prev. capt. (band gained
bird not read.)

2 April

BFB nest # 25 2nd egg 62.5 x 48.1

14 has broken other eggs
6 no longer incub. 2nd e

BTC present

BIP SA Facross from
WAF study area 2 nests
w/ chicks found 10 found
empty

a few greybacks over M-roost
area just prior to sunset
large swirl of sooties

2 April

Sunset 2034 cont
sky 40% cloudy wind east 12-17 kts
sunset 1911

RFB subadults 2

others 171

all others 148

glying 26

} in front
of tower
+ area
by path

GF 27♂ 18♀ 12 ^{immature} subadults and 7 in pt.
all others 199 sex } g tower 89

glying 27

CIS pair in Scaevola
on E side of road to
trans. bldg.

2 April

BIP WAF 820

sky 25% cloudy, moon 3rd quart
wind easterly 13-15 kts
new bands recd: 543-89722 26

repeats

returns

87

88

89

793-21045/24

983

200/w

203

442

CIS

514-76691 w/ ^{new band} 106 ✓

3 April
Shorebird count

	RT	GP	S	WT	BTC
7:37 SEB	10	3			
	(1 seal)				
7:57 S. pt.	4				
	(4 BB on rocks) (used w/ pup)				
8:00 SWB	5	4	1		
	(2 seals)				
8:15 NWB	3	2	1		
	(~5 pairs terns)				
8:27 M pt.	1	1	7		
	(2 seals)				
8:34 NEB	1				
8:43 RW	11	10			
-9:12					
7:35 Hgt.	6	4			
9:12 SAF	15	9			
	incl. gr. stars				
9:24 WAF	20	7			2
9:35					

2 gulls, 1 pair + several CN in S pt. area
a few gulls (gulls) 3 sitting on 50 Seals (sitting)
+ 70 Modies on + around M. pt.

3 April

RTTB return BFT
605 21004 /

CLS over SA2 0905 hrs.

5 BB SAF 0915 hrs.
several in WAF

6 pair terns along road to trans
Wdg 0935

3 April

~~30 SAF~~ RTTB 645-12367
on egg SAF

RFB #17 1st egg hatch

Sunset Roost count Radar

sky 100% cloudy, wind easterly 10-13 kts.

horizon obscured constant 1910

GF ♂ 7

♀ 7

undet. sex

subadult + 9
immature

129

glying 3

west station 6 ad ♀

Cent west

RFB subadults

9

2

all others

224

116

glying 31

3 April

BIP 5A2 820

sky

wind E 10-12

moon

new bands used 943-89727-740

repeats

87

88

156

224

108

117

264

751

411

89

487/w

224

138

returns

903 15084

15284

793-21037 w/27

903 15307

13149

15340

15186

13175

83746 w/34

793 20627 w/35

903 15285

4 April.

BIP #35 has hatched

GF on ground in NAF.

couple of BB in NAF

grey backs over NAF
also 1 fairy tern

5 Apr.

Midway: Sand Is.

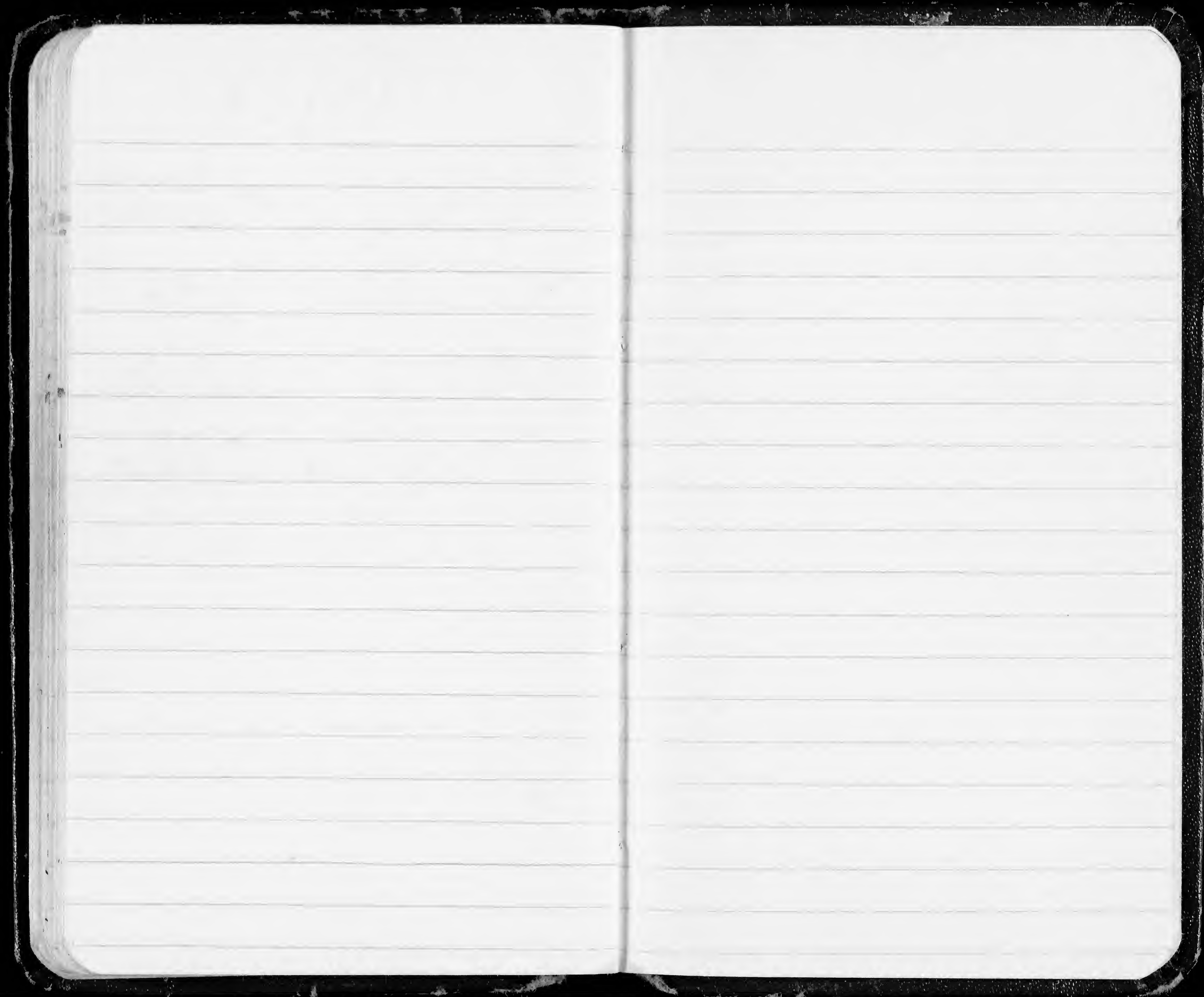
Fairy terns: eggs to chicks
almost ready to fledge

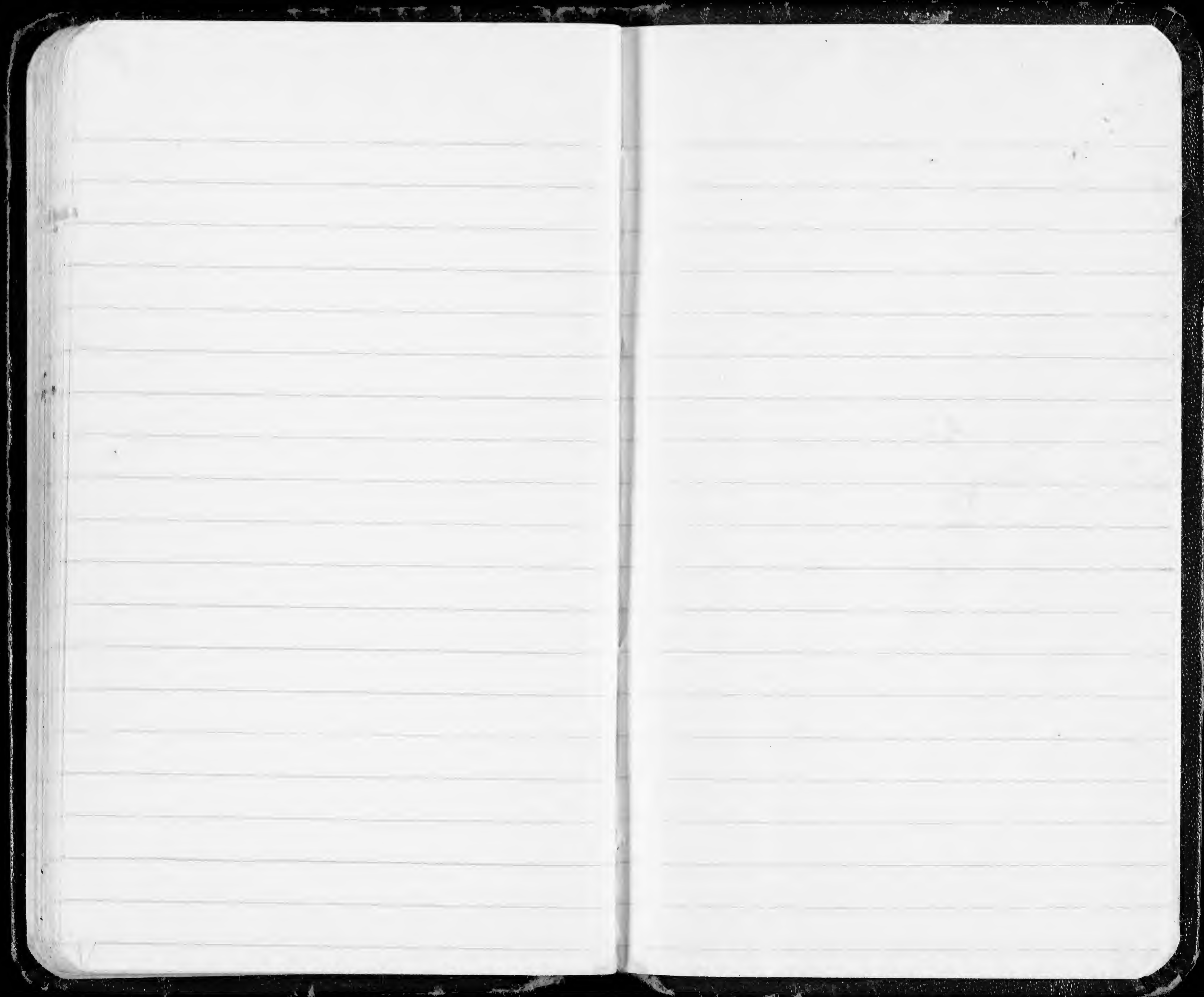
Black noddies nesting

Eastern: found 2 RTTB's on
eggs. Several others on ground
not nearly as many as at Kure

1 Leach's Storm Petrel found
dead on beach ✓

Red, blue, & yellow plastic bands
were put on Laysan Albatross in 1957
on Midway by Carl Kenyon



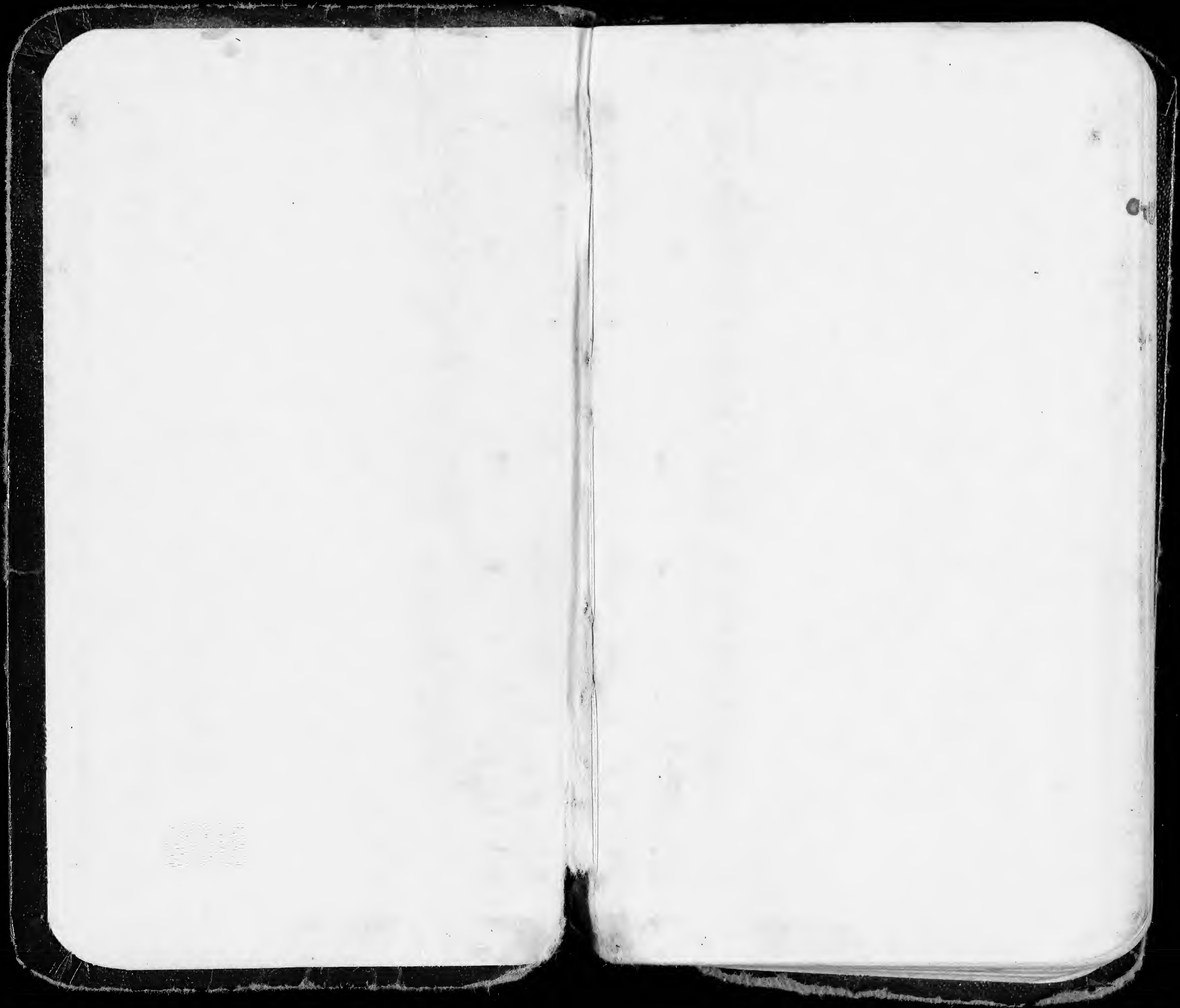


52.1
23112.00
92
28
11.5
50
46
40
23
16

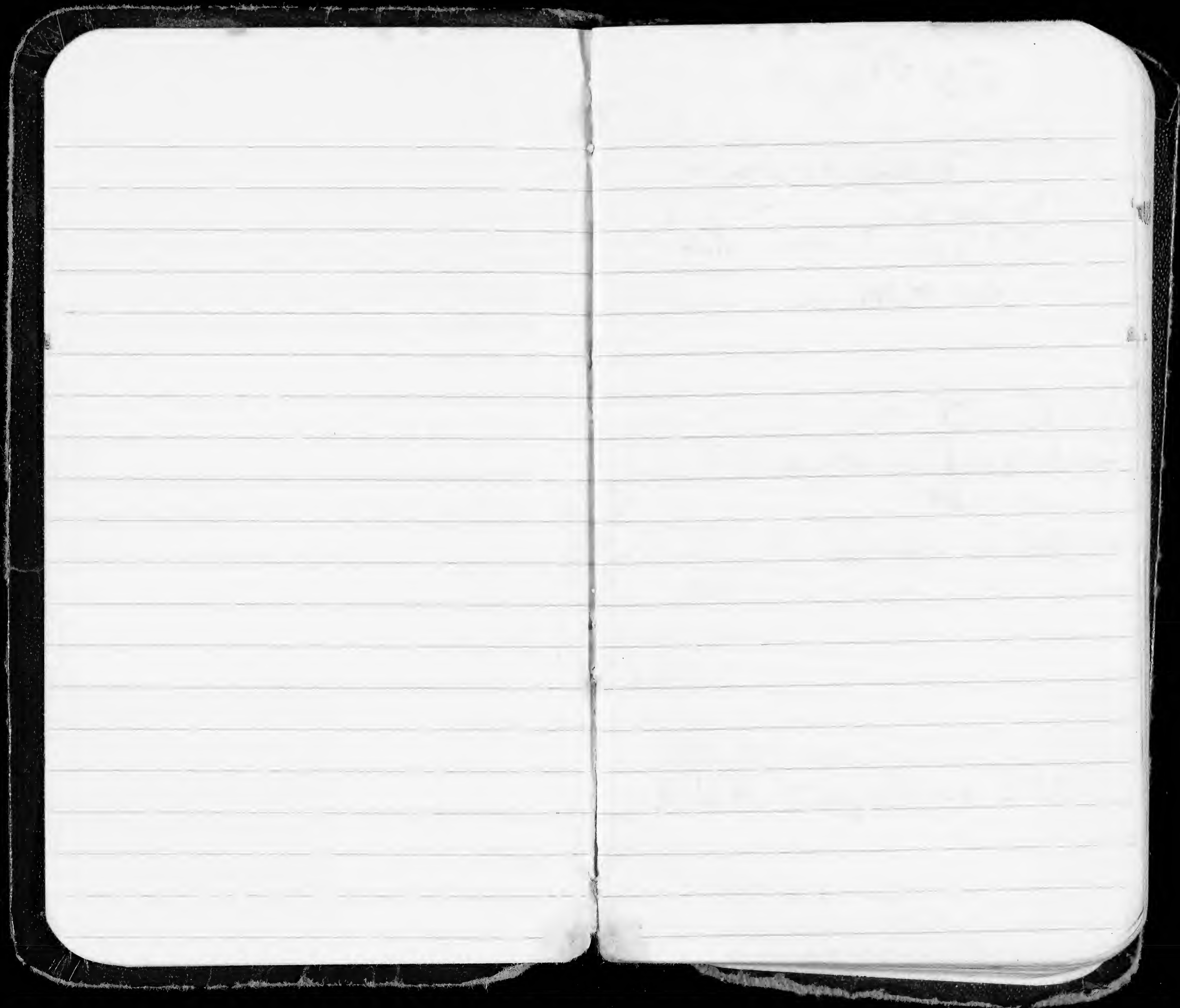


7530-222-0078
FEDERAL SUPPLY SERVICE

Memoranda







20 May

RTTB new bands 205-11906 →

906 } pr. a egg Vern's notes
107 }

C15-09749 oe.

C 15

new bands used 705-11943 →

43 10 BP

705-12104 oe ripe stage

1 BTC seen along NE B at dusk

20 May

~~SE Beach - Laysan Alb. nestlings~~

~~767-52301~~

~~Vern's notes~~

2nd chick from #25 given to RFB
[1st BB egg hatch]

BFB # 19 3rd egg

2nd chick given to RFB

2 BFB chicks given to RFB

(red foot eggs infertile)

chicks 144 days old

20 May

Laysan Albatross

697
89373
87705
88996
90671 (gr. sl.)

737
12040✓
95682✓
97144✓
12970✓
95662✓
97108✓
13515✓
97126✓
15374✓
92599✓
97119✓
92565✓
96312✓
97174✓
95181✓
92560✓
15735✓
97175✓
96785✓
95453✓
95261✓
96760✓
96799✓
97323✓
95656✓
99489✓
96752✓
97342✓
95221✓
95406✓
95197✓
95153✓
97370✓
92557✓
95568✓
29019✓

737

667
44978
397856

597

757
84515
70797

20 May

Laysan Albatross

767
46404
51901
44987
51697
46356
51848
47842
46428
49463
47824
44906
51936
44941
51935
44810
46387
52012
51696
47882
48982
47941
46460
51946
48990
49633
47954
47897
47958
51941
46477
45334
51961
46480
46488
44955
49329
46386

767
49646

587
91572
91867
91808
91806
91827
91840
91763
91790
91789
91588
85806
91902
91800
91893
91599
91911
91873
91725

100

mostly cloudy

wind 8-12 NNE

moon 1st quart.

~ 95% birds caught

20 May
Black footed Albatross
737 767

587

21 May
Shearbird count

7:40 SWB GP spt. cl
RT 4
WT 1 (Bred. plum.)
seals 3 + 1 in H₂O pyps 2

8:00 Spt. GP cl
seals 1

8:10 SEB GP cl spt.
WT 1 (non-bred. plum.)
RT 1
seals 1

8:35
EN RW GP 5 (4cl) (1spt.)
RT 10

8:37 TWS GP el.

853 RWNS 9:20

21 May

Laysan nestlings BFT, RWNS.

new bands: 767-52401 → 474

469 → 470

401 → 426

BFT

SWB 463 → 468

427 → 462

RWNS.

471 → 474

152 broken leg

83

RTTB

newbands used 705-11946 →

615-10320 on egg

635-16144 } pr. (no egg)

46

56 on egg

47 on egg

57

48

58

59 } pr. on egg

635-16125

60 on egg

49

61

50

635-21465

645-12222

w/ sm. downy (with 62 (pink)

615-10493

on egg

63

605-21005

w/ sm. downy (grey)

64 } pr.

605-12631

one egg (broken)

65 on egg

51 } pr.?

52

on egg

53

w/ sm. downy (grey)

605-21268

on egg

54

55

21 May

Black foot all nestings

new bands used 767-52221 → 52300.

221 ~~767-52221~~ SEB

222 → 244 RWNS

245 → 300 SWB

Roosting BFA:

737

767

21 May

BFB S Ad. - 2 yrs old? SAF

767-49551 ✓

dk. br. br. #3

767-51019 S Ad 1 y old WAF ✓

dk. br. br. #1

21 May
Laysan Alb.

697
89698✓
75567✓
89052✓

737
95687✓
92556✓
93587 nesting
95373✓
95383✓
95167✓
95063✓
95677✓
95175✓
95111✓
98021 (bl. sl.) nesting
95014✓
95061✓
95338✓
95099✓
96482✓
92530✓
98147✓
95706 (red plst.)
95037✓
95590✓

667
39310✓

597

757
84115✓

21 May
Laysan Alb.

767
47906
49345
49651
44605
49653
47703
49693
46129
52113
44962
47618
46634
49427
49745
49738
46135
44846
46427
46348
44969
49369
47655
47991
46257
49941
47654
46196
49937
44876
49713
44742
49936
46199
49940
52135
49704

587
91936✓
91741✓ w/ 36
91714✓
91952✓
91979✓
91983✓
91997✓
85811✓
85817✓
91533✓

22 May

CIS SAR

new band 705-11966

egg meas. 53.2 x 39.8

mate 514-76679

rebanding w/ 705-11967

egg meas. 59.9 x 37.0 SAR

Ad. has off band

705 10941 egg meas 56.1 x 41.4 SAR

56.7 x 37.8
514-76724

SAR

RITB new bands 705-11968

✓ 645-12366 ge. st. on egg SAR

68 on egg SAR

69 " " "

✓ 635-16155 " " "

70 " " "

71 " " "

22 May

MEB LA locals

767-52494 → 7500

52573 → 74

M. pt. 767-52575

MWB 767-52576 → 600
+2 52695 → 699

MEB BFA locals

767-52601 → 09

M. pt.

767-52610 → 14

MWB

767-52615 → 30
+1

SWB
767-52694 → 676

SWB
767-52631 → 640

22 May

Sunset Roost count

Radar Reflector

~~sunst 1945~~ wind easterly 12-14 kts

~~sky 95% cloudy~~

~~Central portion~~

~~RFB SAd + I 9~~

~~others 135~~

~~total flying 15~~

~~GF SAd + I 25~~

~~others 62~~

~~flying 0~~

~~Western portion~~

~~RFB SAd + I 4~~

~~others 66~~

~~flying~~

~~GF SAd + I 0~~

~~others 1~~

~~flying~~

22 May

~~BIRD SAF ✓~~

~~943-89931 chick about to fledge~~

~~32 kg. " in burrow~~

~~33 Ad w/ 32~~

23 May

Sooty Terns

Sera samples

newbands 943-89934-57

returns

913-62280

903 18305

39 was BP?

no sample

1	903-04088	
2	34	
3	793-94610	
4	773-18788	
5	35	was bp ?
6	36	
7	37	
8	38	
9	39	bird died
10	40	bp not was
11	903-04409	bp
12	41	no bp
13	903-14341	was bp ?
14	42	defect. bp
15	43	was bp ?
16	813-91406	
17	793-22185	
18	44	was bp ?
19	45	
20	47	

21	48	
22	46	was bp
23	903-07982	" ?
24	49	" ?
25	793-20030	" ?
26	903-17551	" ?
27	903-08184	" ?
28	51	
29	50	was bp
30	52	
31	913-61882	was bp
32	53	bp
33	903-11796	bp
34	54	was bp
35	903-13992	"
36	903-05672	"
37	903-06407	defeathering BP
38	55	bp not was
39	56	
40	- 57	was bp

23 May

~~SWB nestlings~~

~~BFA 767-52641~~

~~LA 767-52700~~

~~767-52675 → B68 X~~

~~Additional's 767-52667 + 66~~

~~NAF 767-52665 - B60~~

~~Additional's north roost 767-52659 → B48~~

~~RTTB 1400 count~~

205

~~high thin clouds 85% (sun shining) then~~

~~wind 8-12 kts easterly~~

~~new bands 705-11972 → 981~~

~~72 Ad. w/ sm. downy (grey) N. side Rd to tennis bldg.~~

~~73 " on egg NAF area~~

~~74 " " "~~

~~75 " " "~~

~~615-10461 " " "~~

~~76 " " "~~

~~77 " N. roost area~~

~~78 " on egg~~

~~79 " " "~~

~~80 " " "~~

23 May

CIS egg meas.

~~55.4 x 39.1~~

~~57.3 x 39.4~~

705-12065

~~RTTB cont~~

~~81 Ad. on egg north roost area~~

~~82 " " SWB~~

~~83 " " along road to pier~~

~~84 " " SAF~~

80. st. SAF w/ grey chick

~~Fairy Tern~~

new

~~band 682-47396~~

no B.P.

~~ldg. w/ net~~

~~LA 767-52642 + 43 SWB~~

~~644 → 647 additional's~~

23 May

~~Grey-backs new bands 882-47394 → 95
793-94807 defec. BP-7
95
24 sm. rising just hatched~~

egg meas. 45.2 x 33.0
46.0 x 34.4

~~Grey backs~~

~~45.5 x 34.1 SAF~~

~~BFB #56 63.6 x 47.3~~

~~red br. red 5 SAd.~~

~~red br. red 10 "~~

~~#35 1st e. hatch.~~

~~#30~~

24 May

~~LA chicks (additional)~~

~~767-52143 - 144~~

~~BFB #36 2nd e. hatch~~

~~✓ #35 1st e. hatched~~

~~✓ #34 1st e. hatch~~

~~✓ 32 "~~

~~31 "~~

~~30~~

~~767-49552~~

~~new SAd in SAF bl br. 5~~

~~46 br. br. 2~~

~~767-46099~~

~~61 br. 3~~

~~3~~

~~767-49551~~

~~" 4~~

25 May

Sooty eggs

III III III III ... ~ 10000

eggs hatching

BFB

98576

red. cent.

SAF

10 ch

~~5~~ 7 nest 56

rd. br. red. 5 present.

#36 2nd chick dead

#39 1st egg hatch

37 "

33 "

30 2nd egg had been placed inside
nearly complete shell of egg #1 pipped today

31 chicks present

25 May

Sunset Roostcoast Radar Reflector

Central Portion

RFB I + SAD. 13

others 167

flying 6

GF I + SAD 42

others 89

flying 3

West Portion

RFB I + SAD. 17

others 126

flying 7

GF I + SAD. 41

others 72

flying 5

Sunset 1949

sky 40% cloudy wind NNW 4-6 kts

25 May PWW

Sooty Terns on eggs

new bands 993-03001 → 03100 ✓

returns on eggs

Midway

773 793 903 913 943 863
19381 4 21553 5 06566 6 84204 8 87825 8 00294 5
95280 4 17818 11 44165 5
96771 4 18933 11 80814 5
96392 4 15876 11 41493 5
95481 4 14994 11 46524 5
94046 4 18492 11 47968 5
20174 4 09307 11 98907 5
23637 5 08797 11 94521 5
96383 4 06269 11 75566 5
19275 11 66647 6
08972 11 6
15772 11 7
05609 11 6
04897 11 6
17444 11 7
04672 11 6
0644 11 6
08042 11 6
13801 11 6
19144 11 7
18486 11 7
06076 11 6
18729 11 7
17124 11 7
06594 11 6
07335 11 6
17448 11 7
16646 11 7
05694 11 6
15799 11 7
05753 11 6
05801 11 6

813 903 (cont)
91673 4 05787 11 6
91598 4 04801 11 6
91934 4 14069 11 6
14986 11 7
08891 11 6
18152 11 7
06746 11 6

65 returns

39.4% banded

✓ 24 May

RTTB last clamp on SEB

new bands 705-11985-1200

schedules ✓

nest #	band #	status
1	86	oe
2	87	"
3	88	"
4	89	"
5	605-21052	"
6	635-21385	sm. white+grey
7	91	oe
8	635-16117	sm. grey
9	93	oe
10	94	oe
11	95	oe
12	96	"
13	97	"
14	98	"
15	635-16583	"
16	99	"
17	1200	sm. grey
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

7 Const

635-11542 } pin
89
92

~~LA locals~~

~~new bands 767-5246 - 47~~

~~46 BFT~~

~~47 RW~~

26 May

BFB nest check

~~green circle present
in BFT area tonight~~

~~1 Fairy Tern egg in CR
has been sitting since 19 May~~

~~2nd grey back egg hatched~~

~~#57 1st egg blk spl red spl 3 ♂
blk bow blk spl 8 ♂
54.5 x 43.2~~

~~#40 1st egg hatch~~

~~39~~

~~34~~

~~31~~

~~30~~

~~2nd egg hatch
2nd egg hatch~~

26 May

Roosting BFA

767

737

697

667

757

~~none on SWB~~

~~none ERW~~

~~none M.pt.~~

~~Grey-backs heard on M.pt. late PM~~

~~BTR Local about to fledge~~

~~943 - 89958~~

~~NRF per west pocket~~

~~Grey back sm. downy just hatched~~

~~682-47390~~

~~Fairy Tern 682-47391~~

~~bare bp not vasculated~~

~~in Mos. tree SE beach~~

~~band #92 lost~~

~~#93~~

26 May
Roosting LA newlands
7 escaped Runway Area Antenna fields (below lines)

667	90	95	97	587
39717		698	151	91827
		630	314	948
	91	273		930
		703		988
697		134		938
87002		321		985
93071	92	343		71961
06540	252	95349		9555
06812	592	131		
		169		
		325		
757	93	306		
		027		
		036		
		95016		
		541		

887	94	96	98
06407		623	594
			99
			050

90% caught

24473
16278
14763
17685

wind south west 6 kts.
sky: high thin clouds
moon in 2nd quarter

26 May
Roosting LA 5 escaped
newlands antenna fields none

44	46	48	51	52
926	382		913	917
838	189		811	030
852	154		801	141
677	443		971	077
801	253		587	
	295		840	
	267			
	293			

49
632
479
386
340
346

730
894
350
914
397
739
910
706
672
381
389

45	47
377	607
	935
	642
	960
	975
	782
	810
	717
	664
	732
	615
	675
	681

96

Left bed M. Roost additional

767-32152

27 May

RTTB nest study area
newbands used 705-00901 → 13

- 18 615-10236 oe
19 635-21481 oe
20 01 "
21 605-21990 "
22 02 "
23 03 "
24 04 "
25 07 "
26 615-10250 "
27 615 10328 "
28 615 10260 w/ sm. grey 28 05 oe (egg cracked)
~~29 605-12602~~
30 06 "
31 605-12692 oe
32 09 oe
33 635 16104 "
34 lvs. downy, ns/ug
35 11 sm. downy, grey
36 615-10272 oe
37 635 16171 "

27 May

615-10300

635-21435 } pair
08
10

east
6 12
7 13

BFB

767-51026 ✓ SAd. 1 yr old.

SAP

38 1st e hatch

27 May

BB SAF 7 nests
NAF 24

Sooty Terns on eggs or brooding chicks

new bands 993-03101 → 03200

returns on eggs or brooding chicks

773
197664

793
215435
954974
215975
236675
966504
940884
966544
236415
213715
963544
957034
955574
952354
223975
957664
910744
954324
966424
961754
235975

943
89868-
873398N
873328N
871518N
89881-
89891-
89888-

count 89800's
as unbanded

903	903	903
05390N6	06572N6	08386N6
08468N6	043446	04715N6
17458N7	112146	12746
16922N7	16547N7	17158N7
17438N7	05289N6	17218N7
110296	09087N6	05240N6
098346	06910N6	07215N6
06051N6	17955N7	19017N7
098166	17285N7	117006
096036	05562N6	16428N7
05527N6	17150N7	06253N6
041836	14872N7	127156
16322N7	16307N7	135016
18883N7	138276	06939N6
145916	19237N7	17669N7
07938N6	18977N7	08708N6
04821N6	14858N7	05291N6
05700N6	16462N7	07164N6
17446N7	06140N6	08953N6
18280N7	17890N7	09186N6
06640N6	04879N6	139746
06284N6	06454N6	04762N6
17410N7	18224N7	04440N6
05496N6	04866N6	07422N6
08642N6	129716	04264N6

27 May

Midway, Sooty terns returns on eggs

863
070315

813
917024
914144
915404
~~915404~~
914114
911714

913 Midway
68717
95538
50685
69515
45581
77476
90029
70973

903
06844 N6
05093 N6
09801 N6
16993 N7
05070 N6
08490 N6
18534 N7
18994 N7
06297 N6
08523 N6
16203 N7

128 returns

56.1% banded

26 May
Shorebird count
 rain

RTTB nest study area

new band 705-00914 - 20

nest #	band #	status
38	14	oe
39	635-16219	"
40	15	"
41	635-21327	"
42	16	"
43	635-16175	"
44	17	"
45	18	"
46	635-16105	"
47	615-10207	"
48	19	"

more rain

28 May

nest #
 2 615-10299
 11 20

BFB nest check

#42 1st e. hatch

#56 2nd egg

#43 1st e. hatch

#35 2nd e "

37 " hatching

28 May

BB

#				
10	2 eggs			
7	"			
11	1 "			
12	2 "	737-92439	♂	SAF
13	2	737-98234	♂	
14	2 "	737-45201	♂	
15	2 "	767-50701	♂	
16	2 "	737-45286	♂	
2	2 "	697-70686	♂	16 eggs on ground by nest
5	2 "	767-45905	♀	
17	2 "	737-92455	♀	
6	2 "			

WAF

28 May

Sunset Roost Count North Tower

Sunset 1949 ^{cond made at} ^{horizon} ^{observed} sky high thin clouds
wind wasw 13-16 kts. + scattered cumulus

In front of tower

GF SAD + I 8

others 34

flying 10

RFB SAD + I 10

others 118

flying 12

All other areas

GF SAD + I 69

others 158

flying 38

RFB SAD + I 11 (1 w/ orange streamer)

others 132

flying 10

many birds still coming in

32 GF nests in front of tower

1 chick visible

3 large RF chicks visible

28 May

CIS path in N. roost
new band 705-00817
depth BP.

Bright moon

29 May

Shorebird & Seal census

SAF GP 1 (clear)

NAF (3 pairs of CIS over N. Roost)
GP 1 (clear)

Id	gts		clear	spotted
R	W	GP	III	
		RT	II	

NWB 6 seals

WRT RT 8 WT 1 seals 2

GP 0

NEB 3 seals

SEB WT 1 3 seals

S Pt. WT 1 1 seal

SWB RT 1 3 seals 2 pups

1 badly decomposed Sooty Shearwater
on SWB (we've had several days
of prevailing west winds)

✓ 29 May

CIS

~~8:20 AM pair captured in BFT area~~
~~new bands 705-00818-819~~

~~forgot to look at BP's~~

5 GF chicks visible in Ag

M. Towner this morning
a diff. orange st. RFB also
present

1 orange streamer and 5 Ad GF

RTTB

~~635-16116 rescued from~~
~~lagoon~~

~~LA local~~

~~767-52153 RW 55~~

29 May

~~Fairy tern caught w/ nest~~
~~behind lat~~

~~682-47389 de or re feather. bp.~~
~~88~~

RTTB nest study area

new bands 705-00921-27

21 Ad. on ground

nest #	band #	status
49	605 12693	oc
50	635 16103	"
51	615 10350	"
52	635 21329	"
53	615 10267	oc pipping
54	22	oc
55	23	oc
56	24	w/ sm. grey
57	25	oc
58	26	just hatched chick
59	27	oc
60	{645-124297 635-16109}	"

29 May

BFB nest check

#41 given 2nd chick from #31
1st egg in 41 impertine (placed in #31)

19 3rd egg 67.3x46.1

~~#43 1st egg hatch~~

BB NAF

47 737-92977 ♀ 1e, 1 chick

18 2 eggs

6 697 70688 ♀ 1e, 1 chick hatch today

16 737-45229 ♀ 2e

19 697 70681 ♂ 2e

20 737-92975 ♀ 2e

3 767 45910 ♂ 1 chick, 2nd e pipped

21 697 70677 ♂ 2 eg. (1 broken)

22 767 45908 ♂ 2 eg.

23 767 51114 ♀ 1e

24 1e

29 May

BB NAF

25 737-96907 ♂ 2e

26 697 70696 ♀ 2e

27 737-92976 ♀ 2e

28 697 70925 ♂ 2e

29 697-70679 ♀ 3e

1 737 45244 ♂ 1 chick 1e

30 697-70928 ♂ 2e

9 2e

29 May

Sunset Roost Count Peter Redford

Central Portion

RFB SAd + I 14
others 152

GF flying 7
SAd + I 6
others 42

flying 0
Western portion

RFB SAd + I 13
others 130

GF flying 6
SAd + I 3
others 12
flying 0

sky 55% cloudy
wind SW 7-12 kts
sunset, horizon obscured
count at 1949

more birds still coming in

29 May

BIP NAF

Ad. refeathered BP (in study area)

[753-32620
943-89959 added to] 943-89961
Ad. refeathered BP

Local (antside study area) NAF
943-89960

30 May

BFB nest duck

32 ant egg hatch

44 1st "

45 " "

37 2nd "

~~39~~ 1st "

BB
nest not # that was unatt. yet.
is attended today

CIS path in M. Roost
514 76711
no bp

30 May

Sunset Roost Count North Tower

In pt. of tower

RFB SAd + I 3

others 109

flying 12

GF SAd + I 2

others 32

flying 6

Other areas

RFB SAd + I 9

others 142

flying 10

GF SAd + I 34

others 79

flying 4

streamer still present

orange

RFB w/

31 May

Sooty Terns Sea Samples

- | | | | |
|----|---------------------------|----|-------------------|
| 1 | 62 bp NV | 19 | 943-80647 bp NV |
| 2 | 63 bp ^{3/4} here | 20 | 793-22491 ref. bp |
| 3 | 64 bp NV | 21 | 903-14232 bp V |
| 4 | 773-18639 bp NV | 22 | 903-12730 bp NV |
| 5 | 773-19889 bp NV? | 23 | 72 bp NV |
| 6 | 65 bp NV? | 24 | 75 bp NV |
| 7 | 903-16388 no bp | 25 | |
| 8 | 863-19426 ref. bp | 26 | |
| 9 | 66 ref? bp | 27 | |
| 10 | 793-94235 bp NV? | 28 | |
| 11 | 67 no bp | 29 | |
| 12 | 68 no bp | 30 | |
| 13 | 773-18665 bp NV | 31 | |
| 14 | 793-96434 ref. bp | 32 | |
| 15 | 69 bp NV? | | |
| 16 | 70 bp NV | | |
| 17 | 71 no bp | | newlands used: |
| 18 | 903-08356 bp V | | 943-89962 → 75 |

~~no samples~~

- | | |
|-----------|---------|
| 793-95472 | bp NV? |
| 903-17084 | bp NV? |
| 943-87231 | bp NV |
| 903-16764 | bp NV |
| 73 | no bp |
| 74 | ref. bp |
| 903-16280 | bp V |

RTTB 1400 Count

287 with NW 14-18 kts
sky 7% cloudy

31 May

North Point

RFB nest count

An. gl. g. tower 62

other areas 68

G-F An. gl. g. tower 34

other areas 62

average star G-F Imm. present
+ RFB still present

Radar neglect

G-F 15

RFB (Central portion) 82

(west portion) 66

count from
(neglect. +
sand dunes)

31 May

~~BFB nest check~~

~~34 2nd hatch~~

~~37 " chick dead~~

~~47 1st egg piped~~

~~57 2nd egg laid~~

~~46 1st egg piped~~

BB

nest #

29 ✓ 737-45294 ♂

25 ✓ 737-92980 ♀

26 ✓ 737-45228 ♂

21 ✓ 737-92438 ♀

3 ✓ 737-95944 ♀ (2nd e. hatch)

4 ✓ 737-92441 ♂

6 ✓ 767-47343 ♂ (2 chicks)

2 ✓ 737-98001 ♀

5 / 1 chick

15 ✓ 737-92454 ♀

9 in WP/F-04-22

unmarked 2c

31 May

RFB new bands used 747-50786 → 70

767-51256	ATY 5000	737-91591	nestling
737-99541	nestling	61	"
737-45268	"	62	"
737-91961	"	767-45275	"
737-92465	"	737-91589	"
737-45223	"	737-91560	"
737-91676	"	767-45931	"
737-45524	"	747-50717	"
56	"	767-51304	"
57	" (BFB chick)	737-92881	"
737-98455	"	63	"
58	S. Ad. wht.	737-91973	"
59	S. brown.	64	"
60	"	65	"
737-92462	nestling	737-95962	"
737-98153	Ad. roosting	767-54910	"
737-92462	nestling	767-51361	"
767-45581	"	737-97597	"

nest contents
737-45378 "
737-92827 "

eggs	naked	sm. downy	med.	lrg.
III	III	III	III	II
III	III	III	III	
II	III	III	II	
	III			

767-54917	"
737-92923	"
767-51661	nestling
66	"
67	"
68	"
69	"
70	"

31 May

G-F new bands used 767-49553-75

53	nestling	Ad ♀	767-49512	whl. head S Ad.
767-45631	"	Ad ♀	767-50938	Ad ♀ nestling
767-45427	"	Ad ♀	61	Ad ♀ "
54	nestling	Ad ♀	62	" ♀ "
55	"	"	767-45436	" ♀ "
767-50644	"	"	63	♂ "
767-49510	"	Ad ♀	64	♂ "
56	"	Ad ♀	65	♀ "
57	"	Ad ♂	767-51287	♂ "
737-98313	"	"	757-93063	♂ "
58	"	"	66	Ad ? "
59	"	"	67	♂ "
60	"	Ad ♀	767-45143	Ad ♀ "
767-45764	"	Ad ♂	767-45655	♀ "
767-46524	"	Ad ♀	68	♂ "
767-51579	"	Ad ♂	767-51269	♀ "
767-51560	"	whl. head S Ad.	69	♂ "

nest contents
73 Ad ♂ "

eggs	naked	sm. downy	med.	lrg.
III	III	III	III	II
III	III	III	III	
III	III	III	III	

III	III
III	III
III	II
III	
III	
III	
III	

74 Ad nestling

767-51562	Rufous head band changed to other leg
767-54953	Ad ♂ nestling
75	Ad ♀ "

31 May

CIS pair on egg
north roost

705-00820-21

1 June

BFB nest check

46	1 st egg hatched	30	2 nd chick given
38	2 nd "		to 37
39	2 nd egg hatch		
41	" "		
47	1 st "		
34	2 nd chick dead		
32	" "		

1 June
Sunset Roost count Radar reflector
Central Partition

RFB SAd + I 28

others 160

flying 23

GF SAd + I 3

others 57

flying 2

Western Partition

RFB SAd + I 13

others 97

flying 6

GF SAd + I 1

others 2

flying 2

Sunset: 1950

sky: 35% clouds

wind: NE 11-14 kts

2 June

Fairy tern in tree behind lab.

682-47387

RTTB nest study area

nest # band status includes 705-00928

1 28 oe

116 (61) 29 oe cracked

20 615-10203 oe

19 615-09001 oe

44 635-16216 188 Pipped

45 615-10248 oe

46 635-16173 "

117 (62) 645-12408 "

58 635-16705 sm grey

57 635-16784 oe

118 (63) 615-10141 "

53 635-16507 mt. sm grey

49 635-16172 oe

50 615-10368 "

119 (64) 605-21219 "

20 30 + 31 empty

2 June

RTTB 1400 count
 ~ 340 sky < 5% cloudy
 wind NE 11-14 kts

BFB nest check

35 only 1 chick 48 1st egg hatch
 40 2 chicks
 39 1 chick
 37 2 "
 32, 33, 34 1 chicks (44) 1 chick
 (45) "
 41 1 chick

pairs deg. territories
 blk spl. blk spl. 2
 blk bar. grey spl 12
 SAE blk spl. 8 + red spl 3
 " " 1 + blk spl ~~8~~ 54
 red bar, red 8 + gr. spl 9
 NAF red spl 8 + blk bar red spl 8
 2 blk h. blk 1 + blk bar blk 14

about 15 escaped new lands 267-52154-57
 2 June
 LA roosting Runway areas

667	737	95	99	46	767	51	949
44978		699	643	134	488	903	949
35230 (bl. pl. ms)		687	221	428	118	848	971
39616		500	196	661		852	980
39785	90	483	394	336		955	
231		465	169	47		833	
91		474	199	612		700	
		291	803	901		946	
697		288	703	821		52	
90810		292	170	967		017	113
		459	470	48		018	051
		445	658	970		093	
		235	605	975		012	
		239				100	
		574				587	
		439				91	
597	92	96	399			572	
591		784				777	
				46		870	
				455		796	
				311		794	
				460	49	888	
				474	603	329	
				603	459	856	
				480	400	343	
				490	983	351	
				47	813	651	
				941	620	345	
				890	857		
				978	50		
					000		
887		383				599	
						602	
						921	
						595	
						753	
						811	
						85	
						762	
	94	98		49			
390	490	563		622			
091 (gr. t.)							
12040	15681	15735	13586				
14745	11994	15229					

134

2 June

~~767 45537 RFB roosting~~
 Roosting
 BFA 3 escaped
 737 93760 blk st. (whit. rump)
 597 84124 " "
~~767 52199 newland blk rump~~
 667 39094 blk st. whit "
 737 45241 " " "
 697 90044 " " "

moon 2nd quarter (vis. ble only
 during last half hour of survey)
 sky < 5% cloudy
 wind NE 5-7 kts.

3 June

BFB nest check

#37 foreign chick dead

45 2nd egg pipped

~~41 2nd chick dead~~

new bands 943-89976-86

25

BIP 22 + 29 seen out of burrows

tonight

newbands 945-89976 NAF

77

study area

locals

BFB

83 78+79

80+81+82 84+85, 86

SAF red bar red 10

~~6 low 6. 1 + 6~~

SAF BB

7 737 45202 ♂

10 587 85182 ♂

32 737 95815 ♂

33 217 93135 ♂

2 eggs 1st nest conc.

2 eggs 4th nest

1 egg new nest

3 June Roosting L A Antenna fields

667	90	737	98	587
35370	009	95	599	91
39324	004 80	117		949
	704	337		935
	91	355		721
	457 85	677		495 85
	943 85	132		531
	428	175		
		063	99	
		103		
697	92	538		
88395	525	602		
81385	646	094		
		016		

757 93

597 94
221 85

887

17025 14974 10175
11293 10634 11540

for weather see
2 June

new bands 767 52158-

about 120 caged

767

44	46	47	49	52
961	637 85	723	730	064
673	121	635	671	078
671	638	732	697	067 85
837	260	801	910	
840	348	630	421	
677	189	780	738	
843	308	631	739	
876			920	
725			714	
861			678	
			945	

48

50

45
368

51

CT5 north coast
514-76692 no BP

BFA

737-45602 blk. sl. wht. ring

Fairy tern 682
862-47386 new band
north coast

4 June

Shorebird Seal Census

NAF GP 1 clear

RT 6

Ndg

SAF

RW GP 111 clear 11 spot.

RT 111

NEB RT 111 Seals 3

NPH WT 2 seals 1

NWB RT 3

SWB RT 1 seals 2 pups 2

SIP 1 seal

SEB RT 1 seals 3

4 June

~~BB #13 chick~~

BFB 767-52200 S.A. prob. 2 yr. old

SAF

~~61 bar 61 spot. 7~~

orange st. Sooty Tern

BFB nest check

~~40 2 chicks~~

~~39 1 "~~

~~45 2nd egg hatched chick expelled~~

~~♀ 767-81017 S.A. NAF~~

4 June
Sunset Roost Count North Tower

~~Length of tower~~

~~GF SAd + I 4~~

~~others 36~~

~~flying 7~~

~~RFB SAd + I 2~~

~~others 115~~

~~flying 3~~

~~Other areas~~

~~GF SAd + I 63~~

~~others 224~~

~~flying 15~~

~~RFB SAd + I 18~~

~~others 157~~

~~flying 5~~

Sunset 1950 horizon obscured

sky 100% cloudy

wind N 10-13 kts.

4 June
2 A sea samples

band #

- 1 737-95528
- 2 587-91740
- 3 697-83242
- 4 767-46121
- 5 767-46338
- 6 737-95775
- 7 767-44632
- 8 767-48975
- 9 59
- 10 737-95784
- 11 767-46460
- 12 767-47941
- 13 737-95281
- 14 737-92591
- 15 767-46428
- 16 737-96007
- 17 767-44899
- 18 737-93539
- 19 767-51848
- 20 767-46118
- 21 737-95559
- 22 767-49775
- 23 737-14745
- 24 767-47612
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32

697-90528 no sample

new bands 767-52159

~~Fairy Tern Biltmore area~~
682-47385 no bp

5 June

RTTB 1400 count 280-300
sky < 5% cloudy
wind 3-5 kts NE

Fairy Tern behind lab
~~682-47384 newband partial bp~~
SAF. bk sp. 5 parent

BFB nest check

~~47 2nd e. hatch~~

~~45 " chick dead~~

~~767-51020 SAF. ♀ WAF~~
return

BB

34	1st egg	27	1 chick
5	2 chicks	35	1 egg
4	" "	36	2 eggs
25	1 chick	37	2 eggs

5 June

~~BIP locals #17 in SAF~~

~~new
bands 943-89987-93 locals SAF-
95+96, 97, 98, 99, 00~~

~~SAF Ad 793 21073 943-89994
added~~

~~WAF locals from SA #29
newbands 943-03201-03 locals SA outside~~

~~Fairy Tern
newbands behind lab ~~682-47382-83~~
no bp~~

6 June

gr. st. RT still present

SAF B Boobies

7 737-98237' ♀ 1 chick today

32 737 45227' ♀

13

1 chick

12

587-527159

NAR

34 737 92456 ♀ (♂ X)

37 737 98168 ♀

20 737 92983 ♂

35 767-51104 ♀

31 737 45207 ♀ 1 egg

1 697 70675 ♀

6 June

BFB nest check

47 2 chicks

48 2nd egg hatch

Sunrise Roost Count Radar, Reflector

wind 13-16 k w

Central portion

sky 85% cloudy
1952

RFB SAd + I 19

others 192

flying 8

GF SAd + I 25

others 95

flying 5

Western portion

RFB SAd + I 30

others 165

flying 23

GF SAd + I 45

others 57

flying 21

6 June new bands
767-49576-85

band #	status	seva #
86	whit. hd., whit brst + thr.	1
767-49529	SAd I (whit belly + hd.)	4
77	A ♀	6
78	SAd II	7
79	SAd ♀	8
80	SAd II	11
81	A ♀	12
82	SAd I	13
83	SAd between II + III	14
84	SAd I	24
85	A ♂	25

6 June new bands
747-50771-83

band #	status	seva #
767-46919	Ad	2
71	SAd. brown	3
747-50753	SAd. br.	5
767-50741	SAd. br + whit	no song
72	Ad	9
767-50968	SAd br.	10
73	SAd whit. br.	15
737-59771	SAd whit	16
74	SAd bet whit-br + whit	17
75	SAd whit-br.	no song
767-50735	SAd whit-br.	18
76	" "	19
77	SAd br.	no song
78	Ad ♂	20
band not read	SAd whit	21
79	SAd br.	22
80	" "	23
767-50779	SAd. bet br. + whit br.	26
81	SAd. br.	27

767-51703	SAd. br.	757-43160	SAd br.
83	" "	737-45307	Ad
82	" whit br.	737-96869	"
767-51722	SAd. br.	737-92497	"

6 June

~~BFB SWB~~

~~46. 6. 6. 3~~

~~66. 6. 6. 8-~~

red
circle

~~767. 49600 5Ad. 2 yrs old?~~

7 June

new bands 705-00932-35

~~RTTB~~

~~study nests~~

~~nest #~~

~~band #~~

~~status~~

~~116 (61)~~

~~32~~

~~e~~

~~34~~

~~lost~~

~~41~~

~~"~~

~~3~~

~~"~~

~~7~~

~~"~~

~~43~~

~~635-21400~~

~~egg hatching~~

~~65 121~~

~~33~~

~~egg~~

~~66 132~~

~~635-16777~~

~~egg~~

~~67 123~~

~~615 10373~~

~~"~~

~~42~~

~~34~~

~~"~~

~~5~~

~~lost~~

~~6~~

~~"~~

~~69 124~~

~~635-21325~~

~~egg~~

~~36~~

~~615 10308~~

~~"~~

~~69 125~~

~~35~~

~~"~~

1 GP (clear) NAF

5 RT + 7 (6 clear, 1 sp) GP
on RW

5 RT (incl. gr. sl. in SAE) 1 cl GP

7 June

~~767-52198 LA local SIF
additional~~

~~BFB nest check
46 2nd e. hatch~~

~~56 2nd egg meas. 59.9 x 46.0~~

~~57 " " 65.0 x 41.0~~

7 June

~~B egg meas.~~

~~10 61.4 x 40.5 + 64.6 x 39.4~~

~~11 66.8 x 41.8 (1st egg)~~

~~7 57.3 x 42.0 (2nd egg)~~

~~12 64.9 x 42.0 + 65.9 x 40.7~~

~~13 62.3 x 42.8 (2nd egg)~~

~~14 ♀ x 56.9 x 41.5 + 59.6 x 41.8~~

~~32 58.7 x 42.2 + 55.5 x 40.8~~

~~33 64.2 x 43.0 (1st egg)~~

✓ 7 June

Sooties on eggs or brooding

863

903

813

11431	16753	06345	16175	91525
08767	18014	06379	17609	91825
14082	17556	08374	17475	91818
07324	14376	06052	16373	
16150	15552	08575	15079	
18865	11127	07074	13668	
11291	17884	07261	19018	
06100	18228	08785	11559	
16207	18807	07527	11070	
07331	17777	06173	16368	
08778	16818	07076		
08755	17560			
07718	11402			
06673	18870			
06291	19178			
04506	18181			
06278	17477			
07260	15748			
05373	16455			
08754	18020			
06714	11536			
05779	18962			
08833	17231			
06134	17144			
07585	18034			
09816	19324			
06766	16686			
06153	14726			
09723	11015			
05770	18301			
09775	12774			
08345	14822			
09862	16035			
07770	14526			
05095	16128			
05253	18461			

773

197894

✓ 7 June

chicks

new bands ~~923-03301-03500~~

midway 913

Johnston

~~28111~~
~~49107~~
~~40867~~
~~89557~~
~~52691~~
~~59377~~
~~60677~~
~~98057~~
~~62935~~
~~79118~~
~~87003~~
~~92125~~
~~64519~~

793

753

943

~~25466~~
~~94071~~
~~96802~~
~~96873~~
~~94969~~
~~95610~~
~~20106~~
~~96658~~
~~96632~~
~~23070~~
~~21559~~
~~24855~~
~~20012~~
~~20120~~
~~23098~~
~~23553~~
~~21615~~
~~95754~~
~~96418~~
~~96664~~

~~29203~~

~~87833~~
~~87031~~
~~87002~~
~~87107~~
~~87645~~
~~87668~~

midway

8 June

~~RTTB 1400 count~~

~~N 225 wind NE 14-15 kts~~

~~sky 70% cloudy~~

NAF

BFB 737-99601 ♀ return

~~46 2nd chick dead~~

~~48 2nd chick dead~~

6 RT in SAF

1 GP (clear) in NAF

9 June

~~RTTB 1400 count~~

~~N 320 wind E 18-19 kts~~

~~sky 20% cloudy~~

Sooty Tern egg measurements

55.9 x 34.9	58.2 x 34.5	51.4 x 35.7
51.4 x 35.9	50.0 x 32.3	52.4 x 36.3
52.0 x 35.4	50.6 x 35.4	52.7 x 37.8
51.4 x 35.0	54.3 x 34.1	49.9 x 34.9
51.5 x 36.2	48.9 x 35.0	51.5 x 36.3
54.4 x 32.6	51.8 x 37.5	51.6 x 35.5
47.9 x 35.0	50.0 x 34.6	54.1 x 35.6
50.1 x 36.0	51.8 x 37.0	51.7 x 34.2
50.6 x 35.0	54.0 x 40.4	50.8 x 35.4
49.6 x 35.3	50.4 x 34.8	49.5 x 35.6
47.9 x 36.7	52.0 x 37.0	48.2 x 35.7
53.0 x 34.8	52.9 x 36.8	53.2 x 35.5
49.0 x 36.0	51.3 x 33.9	55.7 x 35.8
49.5 x 36.7	51.6 x 33.3	52.7 x 35.9
49.6 x 33.2	50.4 x 35.7	50.0 x 35.2
51.4 x 34.8	54.0 x 36.0	48.0 x 34.3
52.8 x 34.9	50.0 x 34.5	49.3 x 34.3
54.0 x 35.2	51.9 x 36.8	47.3 x 33.1
50.9 x 36.7	50.6 x 36.9	50.2 x 35.0
52.0 x 35.4	50.0 x 35.0	49.0 x 34.4
49.5 x 37.0	54.1 x 33.5	51.9 x 34.9
56.6 x 33.9	50.5 x 35.6	50.1 x 34.6
47.4 x 36.1	49.5 x 34.3	52.7 x 37.0
54.1 x 34.3	51.1 x 35.2	47.8 x 34.3
52.3 x 35.4	52.7 x 35.7	52.8 x 36.0

9 June

BFB nest check

~~47 2nd chick dead~~

~~28 chick dead~~

~~WAF 767-50916 ♀ (?) return~~

~~bl. bar, bl. spl ♀~~

1 drk phase WeTail over WAF

BB

~~13 767-50703 ♀~~

~~18 737-45424 ♂~~

~~9 767-51103 ♂~~

~~34 2nd egg~~

RF nest that contained
BF chick aband.

Ab. RF w/ green st. seen today

9 June

BB egg meas.

18 64.0 x 42.2 + 62.3 x 42.1

17 60.8 x 41.0 + 59.9 x 42.2

2 65.2 x 42.3 + 63.2 x 40.9

16 64.1 x 43.2 + 66.3 x 44.1

15 64.3 x 41.4 (pipped) 1 chick present

19 63.9 x 40.9 + 63.3 x 44.6

20 65.0 x 43.5 + 63.9 x 42.1

9 60.8 x 44.0 (marked on 22) 1st chick today

~~CIS path north roost~~

~~new band 705-00822 defeathering b.p.~~

9 June

Sunset roost count North Roost
SS 1952 sky 10% cl, wind 12-15 E
sh. pt. of tower

RFB SA + I 13

others 143

fly 5

GF SA + I 4

others 35

fly 4

All other areas

RFB SA + I 28

others 173

fly 15

GF SA + I 108

others 288

fly 12

9 June

B. FA. Roosting

new bands: none

~~returns~~ none on RW areas

fly

737-92423 bl. sl. wht. ang.

~~CN return~~

~~793-94910 no bp~~

~~LA local RW SS~~

~~new band 767-52197~~

RFB

~~767-51377 SA wht. br.~~

~~767-51634 Ad prob. rgt.~~

~~BFB SA + I 767-52196 new band~~

~~SA + I wht. br. red 11 bl. br. bl. 7 present~~
~~red 10~~

9 June
L.A. roosting

737

sky 10% cloudy
wind E 12-15k
moon

587

667
3936355

90
004
60085

95
684
134
106
343
660
141
306
036
267

98
590

91
54685
40285
432
595
51385
46385
905

91
142 85

99
052
050

697
9078985
9079185

92
592
544

597

93
364
437

96
39985

85

94

97
015

757

887

737
15582
24473

14937

9 June new bands
L.A. roosting 767-52160-61

767

44
987
901
690
751

46
428
488
105
197
253
295

48

50

51
811
700
971
17385

47
838
801
736
679
780

45

49
329
345
747
353
433
916
941
392
672
711
706

52
068
141

above lines always
below, antenna fields

9 June

~~BIP locals SAF~~

~~993-03204-06 + 09~~

~~Q7 Glen } Immature?
Q8 " } locals~~

#19 seen in WAF
new path outside SA

~~CIS~~

~~514-76741 rpt. path in M.R~~

~~76741 rpt. no bp~~

~~76709 rpt.~~

~~76737 rpt.~~

~~bare bp
" "~~

~~NEB~~

~~767-46099 SAd dk. br. br~~

~~767-49551 SAd dk. br. br~~

~~223~~

Fairy Tern

~~682~~

~~862~~

~~47381 almost comp. reg. fl. bp~~

Mes. tree M.R.

a few Grey-backs roosting on M. P.

10 June

~~BFB nest check~~

49 2nd e pipped

~~NAF 737-22943 07 red X~~

Fairy Terns new bands

~~682~~

~~862~~

~~47378 - 10 no bp behind lab~~

~~47431 - 32 no bp~~

6 GP (clear) on M. P)

1 " " SAF

4 RT on various beaches

SWB
GFB

10 June 87
new bands 767-49586-98

band #	Age / sex	size #
1 dead	Ad ♀	1 785
2 58791315	S. wh. + belly	2
3 87	S ♀	3
4 88	Ad ♀	4
5 dead	S. wh. breast band	5
6 dead	Ad ♀	6
7 757-36527	"	7 FFS 67
8 dead	S ♀	8
9 737-45459	Ad ♂	9
10 89	S. wh. wh. belly	10
757-28005	S. " " breast throat	11 Lisianderi 66
90	S " "	12
91	S. wh. w. bell,	13
92	Ad. ♂	14
93	Ad ♂	16 800
94	Ad ♀	17
757-36475	S. wh. w. belly breast	18 FFS 67
dead	A ♀	19
95	S. wh. + belly	20

SWB 10 June
new bands 747-50784
new use

RFB
band # age / sex size #
767 50727 S. wh. br 15 799

2
3
4
5
6
7
8
9
10

GFB cond.

96	S. ♀	21
97	Ad ♀	22
98	S ♀	23 781

10 June

Black Noddies autopsied

for gonad cont -

all had heavy fat

1. ♀ granular (white) 3 slightly ^{ova} yellow

no recently ruptured follicle -

oviduct appears to have been used

2 ♂ testes ~ 2 mm. dark fleshy colored

3 ♂ " " yellow/flesh colored

4 ♂ " " ~ 1.5 black

5 ♂ " " "

6 ♂ " ~ 2 mm yellow/flesh colored

7 ♀ ovary granular (white) no ruptured follicles

evident, oviduct enlarged & convoluted

but regressing, ^{moderate} heavy fat, heavy

body molt

~~Can return~~

813-75776

SWB

10 June

~~GF cont~~

~~new bands 767-52195-92~~

~~95 5 ♂~~

~~94 SI (Westland)~~

~~93 SI "~~

~~92 SI "~~

11 June

BFB nest check

~~55 only 1st egg present~~

~~49 2nd egg hatch~~

~~50 1st "~~

Sunset Roost Count Central Roost
Cent. Ro.

RFB SAd + I 48 others 231

gylms 14

GF SAd + I 39 others 120

gylms 4

West. Ro.

RFB SAd + I 35 others 162

gylms 8

GF SAd + I 98 others 93

gylms 6

sky 10% ddy
wind at 7-8k ss. 1954

11 June
RFB

new bands 747-80785-800

band #	age/sex	status
84	Ad	R
737-91680	"	N
737-99581	"	"
767-45592	"	R
85	S. w.b	R
86	S b	"
87	S w.b	"
88	A	N
89	"	"
767-51362	"	R
90	S b.	R
767-51380 vpt.	A	N
767-54816	S wh. br.	R
91	S br. br + w.b.	R
767-49145 Midway	A.	N
92	"	"
93	S b	R
737-92473	A	"
767-45850	A	N
767-45237	"	"
767-51330	"	"
94	S br.	R
95	A.	"
767-45848	"	N
767-45574	"	R
767-46939	"	N
767-46930	"	"
96	"	R
767-45209 vpt.	A	N
767-51755	S br	R
97	S wh.	"
767-51465	S br	"
767-45856 vpt.	A	N
767-45599	"	"
737-91983	"	"

bl. st.

CF

11 June

767-47586

new bands 767-52062-

band #	age/sex	status
86	S ♂	R
737-92484	A ♀	N
91	"	"
767-45159	"	"
90	A ♂	"
89	A ♂	N (still some wht on breast)
88	A ♀	"
87	S ♂	R
86	A ♂ S black belly	R wht. head + breast
85	A ♂	"
84	S wht underparts	S
83	A ♂	R
82	"	"
81	"	"
757-36110 FFS	S wh. underparts	"
737-26708 P&H	A ♂	"
80	S wh. underparts	"
79	S "	"
767-44417 M. hoo	S wht. belly, dk breast	R rufous head
78	A ♀	R
77	S wht belly, dk breast	R

11 June

~~CIS new band 705-00823 on egg BFT~~

RFB

78	S wh br	R
737-91565	A	N
99	A	R
00	S wh.	R

12 June
Shavebird count

Hdg. — RT 6 GP clear 1

SAF

NAF GP clear 2

RT 5

Runway GP clear 4 spt 1

NEB 3 seals

M. Pt. 2 seals

NWB RT 1 WT 1

4 seals

SWB 3 seals 1 pup

Spt. 1 seal 3 BFB SAD.

SEB RT 1 BTC 1

2 seals

reported min. of 15 seals on Sand Is.

Spt.

BFB 767-52162 SAD? prob 2 yr old

red bar red 12

12 June

81P locals

993-03210-

10 SAF entrance

11 NAF

12-15 NAF study area

16-20 SAF

BB

✓ 737-96873 ♀ brooding

#15 chick present

✓ 37 737-92978 ♂

✓ 17 737-92443 ♂

767-51113 still pres + 11

✓ 5 767-45938 ♂ 2 chicks in 5 + 6

✓ 18 737-45234 ♀

✓ 9 767-70671 ♀ 1 chick 1e

✓ 30 737-95819 ♀ 2e

12 June
BB NAF

- ✓ 737 92447 ♂ roosting
- ✓ 737 45210 ♀ "
- ✓ 35 737 45298 ♂ 2c
- ✓ 24 737 95817 ♂ 1c
- ✓ 36 737 95814 ♂ 1 chick 1c
- new nest 737 92434 ♂ 1c
- ✓ 767 45911 ♀ 2 ← 26 12 eggs just hatched
- #31 2 band

Wedge-tail egg found on top
of ground in NAF

13 June
new bands ~~993 83221-234~~

Sooty Terns - Sera

Sera #	band #	bp cond.
	21	have NV
1	22	"
2	773-19837	"
3	23	"
4	793-23266	"
5	943-88018	"
6	813-91844	"
7	24	"
8	25	"
9	26	"
10	863-07122	"
11	943-87095	"
12	27	reg. bp
13	28	have NV
14	29	"
15	30	"
16	793-23560	"
17	31	"
18	793-22072	reg.
19	793-95759	have NV
20	32	"
21	903-07975	"
22	793-22989	interchange the 22 bow 396 8-13
23	33	"
24	34	reg.
25	Wedge-tail w/ broken wing	"

13 June

BFB inst check

51 1st e. pipped

~~6/6, 6/30, 2~~

new bands used on chicks

568-70834-55

1 34
2 35
4 36
6 37
9 38
11 39
12 40
13 41
14 42
16 43
17 44
18 45
19 46
21 47
22 48
23 49
24 50
25 51
26 52
27 53
29 54

~~BIP seen tonight
#23, 24 in SA~~

NAF
BIP local 993-09235-37
37 in SA

13 June

WTS new bands 705-00824-900
SAF 24-58

705-10895 635-16892
~~12356~~
10930

no bp

NAF 59-200

90 dy. bp

705 ~~12370~~ 635-16951
~~10457~~
~~00792~~
~~12272~~

all light phase

only bird autopsied was ♀
this bird displayed the "fat" head

14 June

BFB nest check

~~51 1st clutch~~

~~red X present~~

BIP nest check

~~23 empty
15 still present~~

~~14~~

~~8~~

~~39~~

~~32~~

~~33~~

~~36~~

~~38~~

~~4~~

~~empty~~

~~n~~

✓ 14 June

~~Sooty Terns on eggs or brooding chicks~~

~~newland 993-03501-700~~

~~612 brooding 2 chicks~~

~~657~~

~~698~~

~~"~~

~~"~~

Total of 4 couple clutches

~~CIS newland 705-01000
went to trans bldg.~~

14 June
Sooty's on egg w/ chicks

813	913 Midway	903	903
91278	31263	06276	07021
91468	43873	08118	08115
91350	88488	06183	08628
91899	99899	05129	07349
91175	61795	06179	08574
91384	67536	06184	07030
	55369	04813	08142
	48486	06109	09149
	70036	06173	02186
	89946	05127	08257
	95012	04105	07141
	45302	05151	07556
		06366	08151
		06671	07067
		04947	08637

~~863~~ Midway
~~04336~~ 5

~~713~~ non PoBSP
~~00863~~

~~713~~
~~19621~~
~~19611~~
~~19764~~

~~903~~ Midway
~~00289~~ 5
~~02848~~ 5

14 June
Sooty's on egg w/ chick

16046	18544	293	943
16383	18346	22078 4	87319 8
16890	18510	95792 4	87130 8
17418	19007	21398 5	87710 8
15523	18932	95105 4	87371 6
16348	18520	23190 5	
14165	19111	96796 4	
17179	19330	20019 4	
15713	19103	94027 4	
16145		23543 5	
15890		23609 5	
16105		96710 4	
17223		21535 5	
14181			
16062			
14131			
17903			
16845			
15860			
17145			
17881			
17044			
16316			

15 June

~~BFB not check~~

~~new return NAF~~

~~767-50926 ♀ red W. red 13~~

~~BTP locals~~

~~SAF 993-03238-40~~

~~NAF~~

~~41~~

~~41 in SA~~

~~BB SAF~~

~~11 737 92449 ♂~~

~~737 96889 ♂ R~~

~~737 45203 ♀ R~~

~~12 new chick~~

~~14 597-83244 ♀ red~~

~~33 737 45204 ♀~~

15 June

North Coast NEB

GF new bands 767-52176-66

76 A ♀ R

737 26751 A ♂ R

75 S all wh. underparts

74 A ♂ N

73 A ♂ R

72 S beginning all wh. belly

71 S. wht. belly, dk breast

70 A ♀ R

69 A ♂ "

68 S all wht. underparts

67 A ♀ R

66 S all wht. underparts

RFB 15 June

new bands 767-52801-03

01 S. below wht/w. + wht
737-90635 A. R
737-98174 " "
02 " "
03 S br

~~BFA local NEB 767-52163~~

~~FT 682-47434 bare bp Scaevola
NEB~~

~~C15 North Roost~~

~~705-00936-37 pair bare bp.
39-40 " on egg~~

~~RTTB M.R~~

~~705-00938 w/ sm. grey ns~~

16 June

~~1400 RTTB count~~

~~~190~~

~~sky 100% cloudy and southevly 8-10k~~

~~nest check new bands 705-00941-57~~

|        |            |                          |
|--------|------------|--------------------------|
| #2     | -          | e                        |
| 38     | -          | abund.                   |
| 1      | -          | e                        |
| 116    | 615-10234✓ | e                        |
| 34     | -          | abund                    |
| 48?    | 605 21022✓ | e                        |
| 12367  | 41         | e                        |
| 42     | -          | eggs broken              |
| 12266  | 605 12707✓ | w/ sm. downy grey        |
| 12165  | -          | e.                       |
| -      | 42         | speckling on back of wgs |
| 8      | 43 (chick) | feath. yng               |
| - new  | 44         | e                        |
| 12     | 45         | e                        |
| -      | 46         | e                        |
| 11     | -          | e                        |
| 4      | -          | e                        |
| - new  | 635 16187  | e                        |
| -      | 47         | -                        |
| 33     | 615 10287✓ | empty                    |
| 34     | 48 (chick) | lrg. feath.              |
| 12569  | 00910      | e                        |
| -      | 49         | -                        |
| - new. | 615 10367✓ | e                        |
| 51     | -          | abund                    |
| 53     | -          | "                        |
| 49     | -          | e                        |
| 50     | -          | e                        |



16 June

~~1964~~  
~~56~~ ~~605-21054~~ ✓ chick 50 feather  
~~57~~ ~~615-09005~~ ✓ chick 51 "  
~~635-21378~~  
~~- new~~ 52 e  
~~- new~~ 53 e  
~~- new~~ 605-21950 ✓ e  
~~- new~~ 635-16191 e  
~~47~~ 635-16192 e  
~~58~~ ——— abund  
~~57~~ ——— "

SAF 54 (chick) med feather yng.  
 Central R. 55 oe.  
 56 (chick) lvs. feather yng.

WTS egg under seaw. 5 ft from  
 RTTB

~~CN on egg returns~~  
~~993-03242 713-00933 no egg~~  
~~43 oe~~

~~BIP~~  
~~SAF Local 993-03244, 45, 46~~  
~~NAR " 47~~

16 June

BFB nest check  
 nothing new

~~231 92945 ♂~~

~~Sunset Reos/Cul. M.R.~~  
~~in ft. of tw. sky 40% cloudy~~  
~~RFB SAD IL 6~~  
~~others 111~~  
~~SS 1951~~

~~GF~~  
~~flying 9~~  
~~SAD 3~~  
~~others 33~~

~~flying 3~~  
~~Other areas~~

~~RFB~~  
~~SAD 10~~  
~~others 145~~

~~GF~~  
~~flying 8~~  
~~SAD 84~~  
~~others 239~~

~~flying 13~~



16 June  
 HA roosting newbands none  
 737

697  
 90792 85  
22641 80

90

95  
 500  
286  
 347

97  
383

91  
421 85  
 646 85

98

92  
314 85

667  
 39360  
 39379

99

93

597  
45144 85

94  
607  
 216

96

45963  
47466

14974  
 10175

16 June  
 100% of birds present caught

44  
969

46  
272

48

51  
 848  
972  
 181 85

52

47

49  
424

45

50

moon begins 1<sup>st</sup> quarter  
 mostly clear sky wind southerly 6-8 kts



16 June

RFB new bands 767-52804/- 820

|             |       |          |                |
|-------------|-------|----------|----------------|
| ✓ 767-45581 | A.    | R        |                |
| ✓ 737-99707 | "     | "        |                |
| 04          | S br. | "        |                |
| ✓ 737-91593 | A     | N        |                |
| ✓ 767-51319 | A     | "        |                |
| 05          | Nes.  |          |                |
| 06          | "     |          |                |
| ✓ 737-45419 | A     | R        |                |
| 07          | "     | N        |                |
| 08          | Nes   |          |                |
| 09          | A     | N        |                |
| 10          | Nes   |          |                |
| ✓ 767-45834 | A     | N        |                |
| 737-43753   | "     | "        | Sand- Johnston |
| 11          | Nes.  |          |                |
| 12          | "     | N        | Non POBS?      |
| 697 70904   | A     |          |                |
| 13          | Nes.  |          |                |
| 14          | A     | R        |                |
| ✓ 767 45510 | "     | N        |                |
| ✓ 767 45246 | "     | "        |                |
| 15          | Nes   |          |                |
| 16          | Nes.  |          |                |
| 17          | "     |          |                |
| 18          | "     |          |                |
| 19          | S br  | R        |                |
| 20          | A     | R (NW B) |                |

GF

|          |           |      |   |      |
|----------|-----------|------|---|------|
| new band | 767-52165 | S. ♂ | R | C. R |
|          | 737 96909 | A ♀  | " | NWB  |
|          | 767 45708 | A ♂  | " | "    |

16 June

LA nest. 52318 has droopy wing

CIS EERW bare bp

705-00957 NR { 76735 no GP new  
76705 " rpt.  
76741 " rpt.

Can't find B. back egg EERW

BB

11 737 95803 ♀ Te.  
737 45296 ♂ R rpt.



✓ 17 June

~~RTTB 705-00958-60~~

~~58 along rd. to pier oe~~

~~59 SWB oe 60 SWB oe~~

~~BIP locals 993-03246-49-50 SAF~~

Sooty Terns on eggs or brooding chicks

new bands 993-03701-800

Returns

~~813~~

~~773~~

~~19699 4~~

~~793~~

~~23525 5~~

~~24670 51~~

~~2239 5~~

~~94082 4~~

~~95761 1~~

~~23575~~

~~933~~

~~87452~~

Johnston

~~863~~

~~913~~

~~62272~~

~~82577~~

~~42829~~

~~79816~~

~~95051~~

~~30163~~

~~943~~

~~87485~~

~~059~~

~~843~~

~~85508~~

Johnston

✓ 17 June  
Sooty returns

903

~~903~~

~~08565~~

903

~~17123~~

~~804~~

~~09310~~

~~634~~

~~04329~~

~~11280~~

~~13479~~

~~14328~~

~~543~~

~~974~~

~~15903~~

~~834~~

~~18783~~

~~979~~

~~16567~~

~~995~~

~~06671~~

~~528~~

~~089~~

~~711~~

~~067~~

~~07466~~

2 possible double  
clutches



17

June

GF

new bands

767-52879-899

767-52164

64 S I

99 S II

98 S II

97 S III

96 S II

95 A ♂ R

94 " " "

93 S ♂

92 S ♂ " "

91 A ♂ " "

90 " " "

89 A ♀ " "

88 S I

87 A ♀ R

86 " " "

85 S II

737-26759 A ♀ R

84 S III

83 S I

82 S II

81 A ♀ R

80 " " "

767-50512 A ♂ R

79 unaccounted for

BB central roost

767-51101 S Ad.

17 June

RFB

new bands

767-52821-52

✓ 737-99761

A. R

✓ 737-99589

A R w N?

21

S br.

✓ 767-45541

A N

nodata

22

"

✓ 737-91972

" "

757-37982

S br

✓ 767-46945

S wlt/w

23

"

48

A N

24

"

49

nest.

25

"

50

"

26

S wlt.

✓ 737-45438

A N

✓ 737-99760

S bed wlt /w &amp; wlt

52 nesting

27

A

R

28

"

N

✓ 767-45586

"

"

30

S br

31

A R

32

nest.

✓ 767-51660

A N

33

nest.

34

A N

35

"

36

nest.

✓ 737-98389

S br

37

A N

38

"

R

39

"

N

✓ 767-51336

"

"

✓ 767-45577

nest.

40

A R

non 767

✓ 697-70944

nest.

R w N?

Mibway

767-49233

A R

44

A N

45

nest.

46

"

47

"



18 June

~~RTTB 705-00961 SWB oe~~

BFB S. Ad. on NEB  
unbanded

~~SAF BB egg meas.~~

~~33 63.5 x 42.6 2<sup>nd</sup> egg~~

~~32 2 eggs~~

~~14 1 chick 1e~~

~~13 1 "~~

~~12 1 " 1e~~

~~7 1 "~~

~~10 2 eggs~~

~~11 1 egg~~

NAP

~~9 1 chick, 1 egg~~

~~30 58.2 x 42.6~~

~~1 1 chick~~

~~29 64.9 x 42.7, 67.4 x 44.1 (pipped), 69.5 x 45.0~~

~~28 59.9 x 42.2 62.5 x 44.2~~

~~38<sup>1st</sup> 67.9 x 44.7, 2<sup>nd</sup> 67.7 x 43.8~~

~~35 63.6 x 43.2, 60.6 x 42.0~~

~~27 1 chick~~

~~25 1 chick~~

~~26 65.0 x 43.0~~

(new nest) 06-12

~~24 1 chick 2 or 3 days~~

18 June

BB

~~33 737 45233 ♀ 2e 16 737 45296 ♂ 2e~~

~~38 ♀ blue S~~

~~23 767 51114 ♀~~

~~4 1 chick~~

~~2 2 eggs~~

~~36 1 chick~~

~~737 95814 ♂~~

~~19 2 eggs~~

~~6 2 chicks~~

~~17 2 eggs~~

~~5 2<sup>nd</sup> chick e pulled st. / lat. w~~

~~37 2 eggs~~

~~15 1 chick~~

~~SFB nest survey~~

~~767-52900 S. Ad. yellow S~~

~~767-31040 " 40 blue~~

~~37 63.3 x 42.3~~

~~34<sup>1st</sup> 64.0 x 42.6~~

~~39 67.6 x 46.8~~

~~67.6 x 44.2~~

~~2<sup>nd</sup> 64.3 x 43.9~~



18 June

RFB new bands 767-52853-66

53 nest  
 54 A N  
 737-45380 " R  
 767-46934 " "  
 55 nest  
 56 S br.  
 767-46952 A N  
 57 nest  
 767-46911 A R  
 58 S. br.  
 Midway 59 nest  
 767-49192 A N  
 60 nest  
 61 "  
 62 S bet. br & wht/br.  
 767-45995 A N  
 737-99784 A R  
 63 nest  
 64 "  
 65 "  
 66 A R  
 767-45828 A w  
 737-98390 " R -pt.  
 737-45353 " "  
 767-50995 S wht/br.

18 June

GF new bands 767-52867-878

78 A ♀ R  
 77 " ♂ "  
 76 " " R?  
 75 " " R  
 74 S II  
 73 A ♂ R  
 72 S II  
 71 A ♀ R  
 70 A ♂ "  
 69 S II  
 68 A ♀ R  
 767-46566 A ♀ R  
 67 A ♂ R



18 June

unbanded LA chick BET  
w/ droopy wings

10 GP clear on RW  
4 RT in WAF

19 June

BFB

~~137 99601 ♀ A WAF~~

~~Shorebird count~~

~~Wdgs~~

~~WAF~~

~~SAF~~

~~RW 9 GP (clear) 4 RT~~

~~NEB 1 WT 7 seals~~

~~Npt. 83 CN (10 eggs) ✓~~

~~1 G-T~~

~~2 seals~~

~~NWB 3 seals~~

~~SWB~~

~~Spt. 37 CN (10 eggs) + 17 edge beach~~

~~2 seals~~

~~1 WT~~

~~SEB 1 seal~~



# Sooty Terns

Caught from air

returns

793

903

|                            |                            |
|----------------------------|----------------------------|
| <del>9553</del> b.p. v.    | <del>11463</del> b.p. reg. |
| <del>21511</del> b.p. bare | <del>07331</del> b.p. v.   |
| <del>23165</del> no bp     | <del>08675</del> b.p. bare |
|                            | <del>17954</del> "         |
|                            | <del>06930</del> b.p. v.   |
|                            | <del>08200</del> bare      |
|                            | <del>08274</del> "         |
|                            | <del>05714</del> v.        |
|                            | <del>17136</del> bare      |
|                            | <del>18154</del> "         |

743  
87235 b.p. bare

813

~~91979~~ b.p. bare  
~~786~~ "

U

19 June

new bands 993-03251-265

|               |                      |
|---------------|----------------------|
| <del>51</del> | <del>b.p. bare</del> |
| <del>52</del> | <del>b.p. reg</del>  |
| <del>53</del> | <del>b.p. bare</del> |
| <del>54</del> | <del>"</del>         |
| <del>55</del> | <del>"</del>         |
| <del>56</del> | <del>no bp</del>     |
| <del>57</del> | <del>b.p. bare</del> |
| <del>58</del> | <del>v.</del>        |
| <del>59</del> | <del>w.</del>        |
| <del>60</del> | <del>"</del>         |
| <del>61</del> | <del>"</del>         |
| <del>62</del> | <del>"</del>         |
| <del>63</del> | <del>"</del>         |
| <del>64</del> | <del>"</del>         |
| <del>65</del> | <del>"</del>         |

WTS -

new bands 705-00962-999  
94-99 SAF  
62-65 SAF 12439's bare

|                  |      |       |         |       |         |
|------------------|------|-------|---------|-------|---------|
| 66-93            | NAF  | 66-77 | no bp   | 87-89 | no bp   |
| 635 16483        | 1/91 | 78-79 | bare bp | 90    | def     |
| 635 16523        | 1/86 | 80-81 | no bp   | 91    | bare bp |
| 705-12173        |      | 82-84 | bare bp | 92-93 | no bp   |
| <del>12188</del> |      | 85    | no bp   |       |         |
|                  |      | 86    | def bp  |       |         |

fat headed bird auto pruned ♀



19 June

My back Tern

~~682-17435 no bp. caught on ground~~

<sup>new</sup>  
1 egg found one of 2 previous eggs  
has definitely hatched - chick  
escaped

BIP NAF ~~993-03266~~

local

chicks in 5A nests

Ad. ~~753-33307~~ /w 267

#'s 14 & 15

are gone

Sooty's on eggs or brooding chick

~~993-03268 - 300~~

2 possible double clutches

19 June

Sooty returns on eggs or wd chicks

~~793~~  
~~95675~~

~~713~~  
~~87743~~  
~~53808~~  
~~74260~~

903

~~08947~~

~~09714~~

~~17713~~

813

~~18558~~



20 June  
Kure

Fairy Tern egg in  
CR has not hatched

1 unbanded LA chick  
in CR

20 June  
Midway  
Sand Island

~~LA albatrosses 937-87001-200~~  
locals

FT 682-47436-39

36 nest.

37 "

38 Ad.

39 nest.



21 June  
Eastern Is. Midway

LA chicks

new bands 737-87201 - 300

87401 - 500

501 - 600

BFA chicks 737-87301 - 400

3 unbanded BFB's fly & landing  
on eastern end of island.

21 June  
Eastern - Midway

BFB

757-92199 ♀

757-83503 ♂

chick 568-70855

757-83501 ♀

667-35033 ♂

chick 568-70856

another nest w/ 2 eggs

(2 Grey-banded Terns)

508-51753 ♀

chick 568-70857

737-45113 ♀ chick too small  
to band  
banded on Kure  
Oct. 63



21 June  
Sand Midway

1 Grey-backed Tern in harbor  
area



date May Rangall

1

.17

11

.04

19

.12

20

.01

23

.03

24

.02

25

.05

28

.30

31

.01

---

.75



11  
7  
6  
3  
6  
11  
3  
4  
4  
3  
1  
19



111

7530-222-00

FEDERAL SUPPLY SERVICE



# Memoranda



1969



Ron Walker

~~LA-02~~

Jaysen Albertsons along



✓ 11 Apr Ponding  
LA

737 - 94303  
" - 99106  
" - 95388  
" - 92022  
" - 92591  
" - 14745  
" - 99051  
" - 11994  
" - 96554  
" - 92716  
" - 95925  
" - 99230  
" - 91107  
" - 95319  
" - 95299  
" - 99249  
" - 97007  
" - 95644  
" 99228

✓ Same

767 - 49951  
" - 46409  
" - 46336  
" - 51845  
" - 49815  
" - 51850  
" - 51903  
" - 49952 \*  
" - 49813  
" - 49953 \*  
" - 49954 \*  
" - 51887  
" - 47828  
" - 51675  
" - 51676  
" - 49955 \*  
" - 51895  
" - 47844  
" - 49956 \*



✓  
Sonne

587 - \$1405

" - 91810

" - 91656

" - 85771

" - 91770

" - 91590

" - 91587

" - 91856

" - 91692

697 - 22229

" - 90512

" - 87705

" - 90560

" - 22125

24573

✓  
Sonne

667 - 39310

- 39303

7577



~~Same~~

887 - 07858

~~Same~~

767 - 51892

" - 51891

" - 49957 \*

" - 46423

" - 51913

" - 48969

" - 47980

" - 49958 \*

" - 49959 \*

" - 49960 \*

" - 49961 \*

" - 49962 \*

" - 49963 \*

" - 49964 \*

" - 46342

" - 47912

" - 46431

" - 48970

" - 45399



✓  
Same

737 - 95688  
" - 15229  
" - 96134  
" - 97305  
" - 45926  
" - 98955  
" - 97144  
" - 95489  
" - 98975  
" - 97152  
" - 95487  
" - 99405  
" - 97129  
" - 95033  
" - 98089  
" - 98909  
" - 91322  
" - 98826  
" - 95197

✓  
Same

737 - 95285  
" - 95290  
" - 97150  
" - 97135  
" - 98049  
" - 92344  
" - 93236  
" - 99438  
" - 97048  
" - 97651 green streamer  
" - 97843  
" - 94440  
" - 97171  
" - 99325  
" - 94090  
" - 47280  
" - 99439  
" - 99464  
" -



✓  
Same

767 = 51678

" - 46376

" - 49965\*

" - 49966\*

" - 46311

" - 48976

" - 46308

" - 49845

" - 46315

" - 49967\*

" - 48978

" - 46303

" - 54608

" - 48979

" - 51697

" - 49968\*

" - 49969

" - 46383

" - 40983

Same

767-



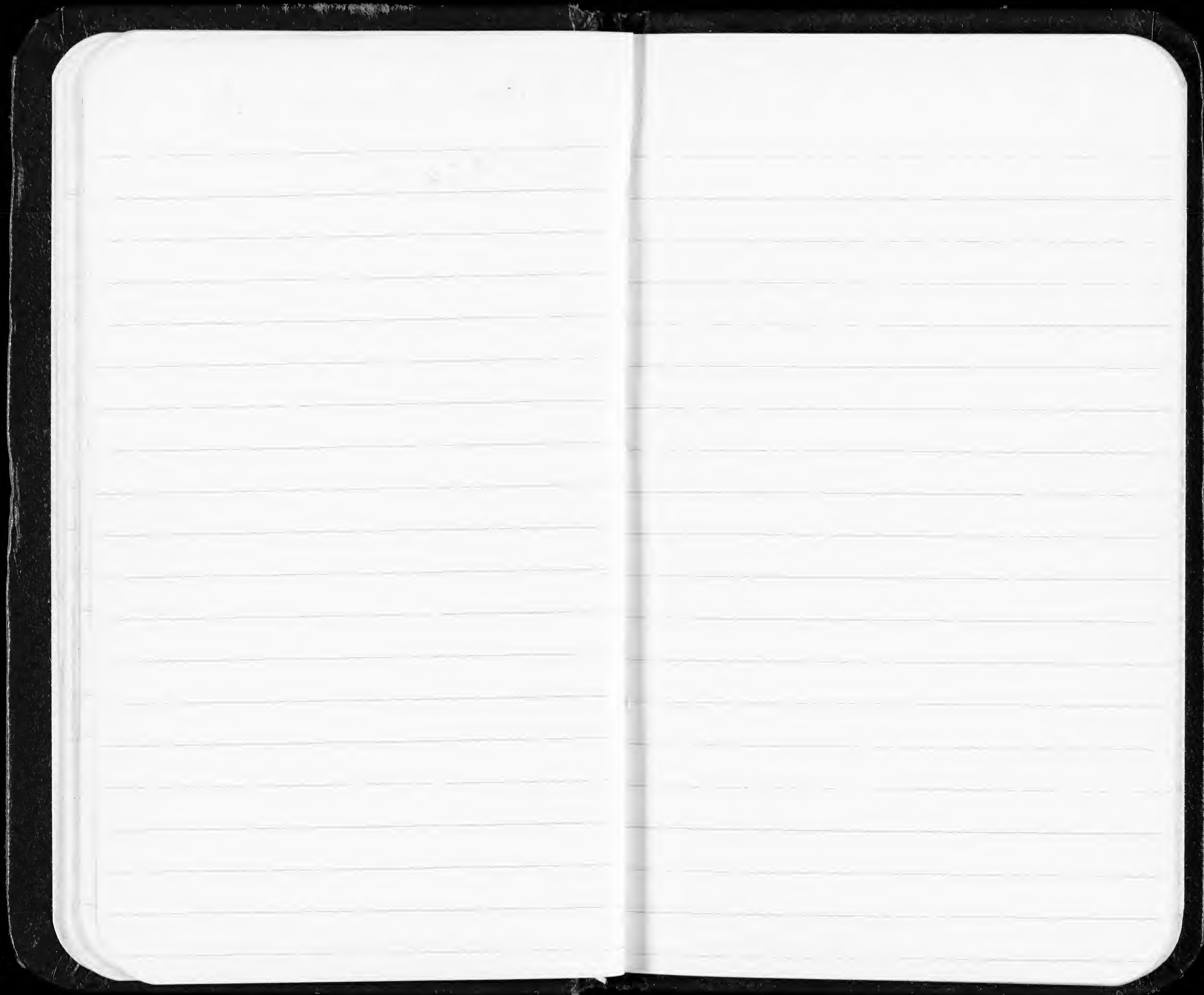
✓  
Same

597- ~~(59) 843~~

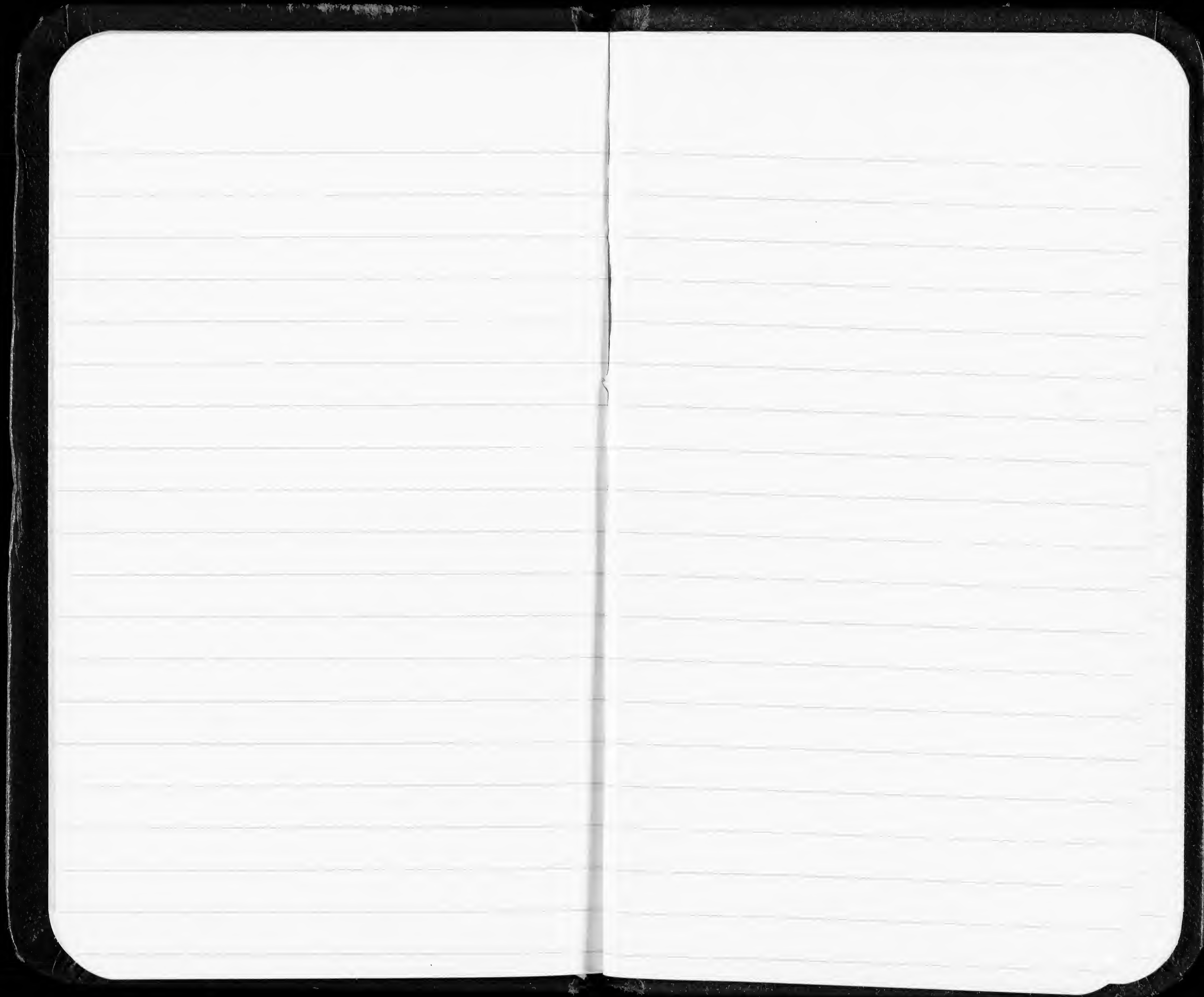
11 Apr. Roosting LA. ✓

587 - 91888











M

A

4 .61

6 1.18

7 .18

17 .01

19 .85

20 .04

~~27~~ .03

---

2.90

12 .09

23 .04

24 .05

27 .15

28 .06

29 .06

30 .15

---

.61



M

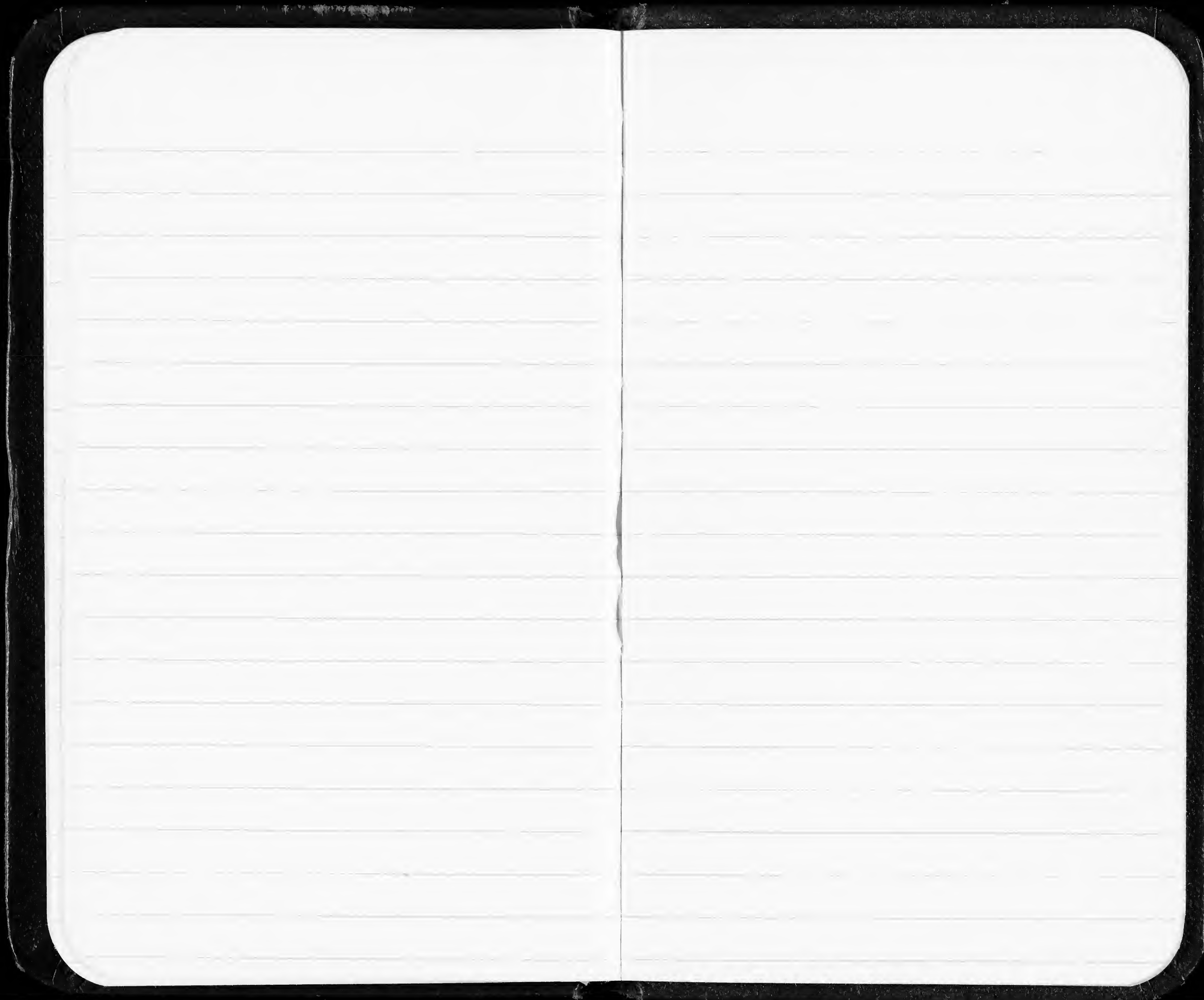
A

|               |      |    |     |
|---------------|------|----|-----|
| 4             | .61  | 12 | .00 |
| 6             | 1.18 | 23 | 0   |
| 7             | .18  | 24 |     |
| 17            | .01  | 27 |     |
| 19            | .85  | 28 |     |
| 20            | .04  | 29 |     |
| <del>27</del> | .03  | 3  |     |

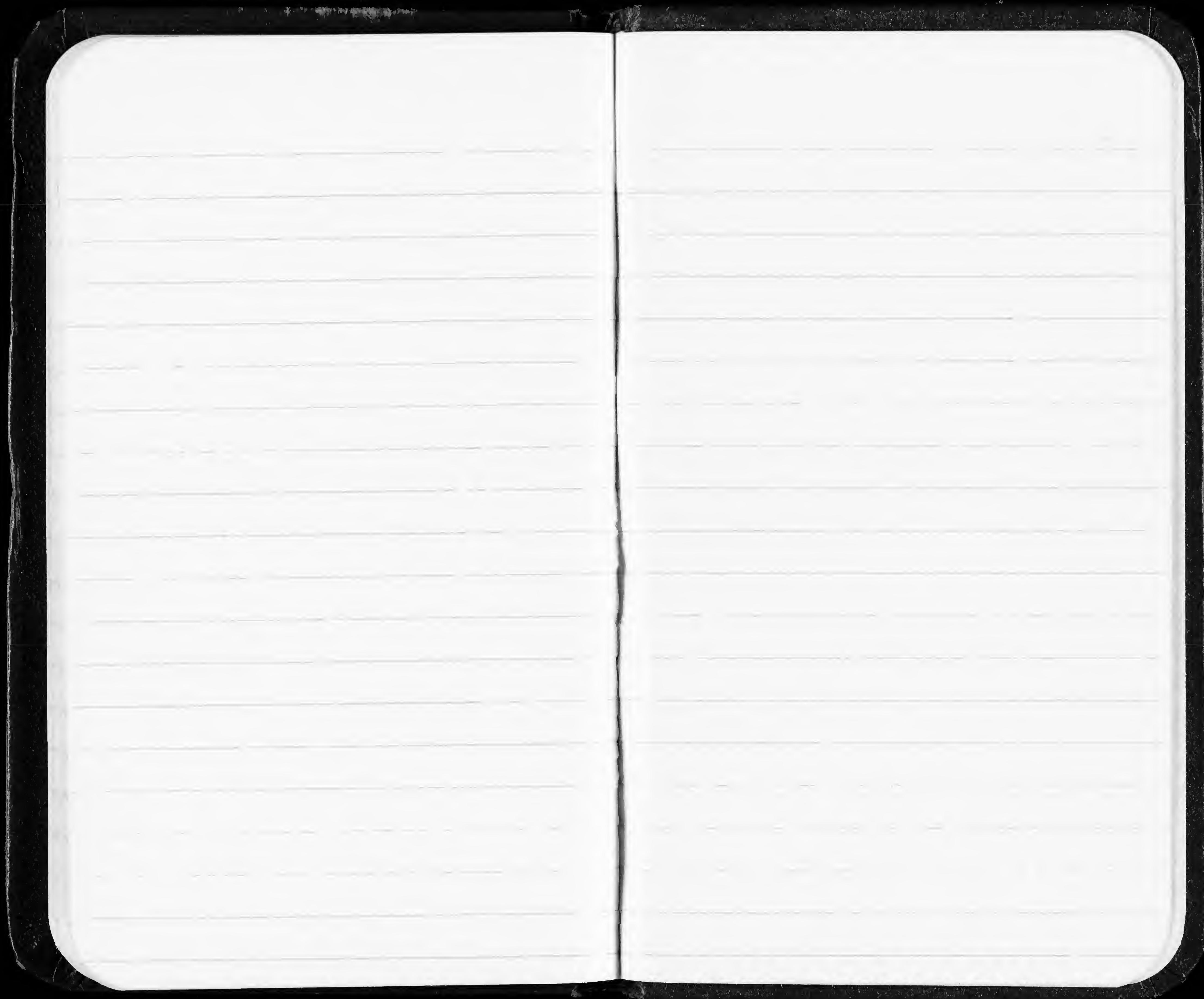
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200











bill

individual preening

jumping

bill clacking

circling

straight up









7530-222-0078

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